



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

UMTRI - 96 - 8
VERSION 05

UM-3737-98
1998 Lincoln Navigator

In-depth Vehicle Occupant Report

The University
of Michigan
Transportation
Research Institute

UMIVOR-UMIVOR-UMIVOR



DISCLAIMERS

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

Case Vehicle (A): 1998 Lincoln
 Type: Navigator, 4x4 SUV
 Driver: 46-year-old female
 CDC: 12-FLAE-7, 00-RBES-2

Vehicle. (B): 1997 Kenworth
 Type: T-800, Tractor w/ trailer
 Driver: 24-year-old male
 CDC: 98-0000-0

Situation

(Slide 1, 2) Case vehicle (A) was traveling in the outside eastbound lane of a straight section of a dry asphalt, six-lane divided highway, with a speed limit of 60 mph. Vehicle (B) was traveling in the center lane ahead of case vehicle (A), and was hauling a [REDACTED] excavator. As vehicle (B) began to travel under an overpass, the boom of the excavator struck the overpass and fell from the trailer into the path of case vehicle (A). The driver of case vehicle (A) reportedly attempted to veer to the right. Case vehicle (A) struck the cab of the excavator as it fell, while the shovel came down and contacted the right quarter panel of case vehicle (A). The driver of vehicle (B) reportedly pulled vehicle (B) over to the south shoulder of the road after loosing his load. Case vehicle (A) came to rest in its original travel lane facing east.

Vehicle (B) and the excavator were not inspected. Using the WinSMASH accident-reconstruction program and (slides 3, 4, 5, 6, 7, 8, 9) c-values measured for case vehicle (A), the following impact severity was calculated for the frontal plane damage:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	36 (23)	-36 (-23)	0 (0)

Exterior Damage

(Slides 10, 11, 12, 13, 14) Damage to case vehicle (A) was severe. Direct-damage length was 33 cm and began at the left-front bumper corner. The vehicle overlap was calculated to be 20%. Maximum crush was 103 cm and occurred at the level of the top of the radiator support, at the left fender corner. The front bumper, left headlight assembly, radiator, and left fender were damaged. The fiberglass hood was broken, the hood latch was damaged and jammed, and the left hood hinge was damaged and separated from the hood. The rear edge of the hood was elevated,

and contacted the windshield, but did not penetrate it. The windshield was holed and cracked by contact with the cab of the excavator. The left upper and lower A-pillars and left upper B-pillar were deformed. The A-pillar was moved rearward from contact with the excavator and the roof was buckled above the driver seat. The left-front door was jammed shut and had been pried open during the extraction of the driver. All other doors remained closed and operational. The left-side wheelbase was reduced by 18 cm, and both front wheels were damaged.

Interior Damage

(Slides 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27) This vehicle was equipped with steering-wheel and passenger frontal-impact airbags, which deployed during the frontal impact. The steering-wheel airbag skin had three areas of melted/burned fabric in a 6-cm-by-9-cm cluster beginning 18-cm below the center of the airbag. No damage was noted to the module doors/flaps. No damage was noted to the passenger frontal-impact airbag skin or its module doors/flaps. (Slide 28, 29) The steering-wheel rim and spokes were severely deformed by occupant contact and the steering column was rotated to the left. (Slides 30, 31, 32, 33, 34, 35, 36, 37) The interior of the vehicle sustained severe damage. The left-front door interior, hardware, armrest and glass were damaged. The left-front roof siderail and roof structure were also damaged. The parking brake pedal and release, and brake pedal were damaged. The brake pedal penetrated the front of the driver seat cushion. The windshield top moldings, left-upper A-pillar, and the rearview mirror were damaged. The upper and mid instrument panels, center console, control knobs and levers, and A/C heater ducts were damaged. The lower instrument panel and transmission selector lever were damaged from driver contact.

The following intrusions were noted and measured.

Location	Component	Distance (cm)	Direction
Driver	Windshield header	21	Rearward
	A-pillar	25	Rearward
	Steering-wheel column	44	Rearward
	Instrument panel	45	Rearward
	Parking brake	21	Rearward
	Brake pedal	50	Rearward
	Roof	9	Down
	Roof siderail	9	Down
Center front	Instrument panel	27	Rearward
Right front	Instrument panel	15	Rearward

Occupant Injuries and Kinematics

(Slide 38) The 46-year-old female driver was wearing the available three-point belt as indicated by webbing imprints on the D-ring and the airbag deployed. On impact, she moved forward into the belt restraint and (slide 39) the deploying airbag, as indicated by a lipstick transfer on the airbag skin. (Slides 40, 41, 42) She sustained an abrasion to her right forearm, probably from contact by the transmission selector lever. She sustained bilateral dorsal hand abrasions, probably from contact with the middle instrument panel, although no contact points were noted. She sustained a contusion to the left thigh, probably from contact with the steering-wheel rim. She sustained a fracture of the left femoral shaft from knee loading due to contact with the knee bolster. She also sustained contusions and abrasions from contact with the knee bolster.

The 12-year-old male right-front passenger was reportedly wearing the available 3-point belt. On impact, he moved forward into the belt restraint and the airbag. He sustained an abrasion to the right side of the neck from contact with the belt webbing.

The 10-year-old male right-rear passenger was reported wearing the available 3-point belt. On impact, he moved forward into the belt restraint. No injuries were reported for this occupant.

(Slide 43, 44, 45) The attached tables summarize the injuries sustained by the driver, right front and right-rear passengers.

Occupant: Driver
Restraints: 3-point belt worn; airbag deployed

Age: 46 years
Stature: 167 cm (5 ft 6 in)

Sex: Female
Mass: 62 kg (136 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Abrasion to right forearm	1		Transmission selector lever	
Bilateral dorsal hand abrasions	1		Middle instrument panel	
Contusion to left thigh	1		Steering-wheel rim	
Left femoral shaft fracture	3	Knee bolster		
Abrasions to right lower leg	1	Knee bolster		
Contusions to right lower leg	1	Knee bolster		
Abrasions to left lower leg	1	Knee bolster		
Contusions to left lower leg	1	Knee bolster		
<u>Maximum A.I.S. Level</u>	<u>3</u>			
<u>Injury Severity Score</u>	<u>10</u>			

Occupant: Right front
Restraints: 3-point belt worn; airbag deployed

Age: 12 years
Stature: 163 cm (5 ft 4 in)

Sex: Male
Mass: 41 kg (90 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Abrasion to right neck	1	Shoulder belt webbing		
<u>Maximum A.I.S. Level</u>	1			
<u>Injury Severity Score</u>	1			

Age: 10 years
Stature: 147 cm (4 ft 10 in)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
No injuries reported				
<u>Maximum A.I.S. Level</u>	<u>0</u>			
<u>Injury Severity Score</u>	<u>0</u>			

VERSION 05-1996

ADMINISTRATIVE AD-1

TEAM CODE

30

ACCIDENT ID

03737

VEHICLE NUMBER

1

MODULE

A D

FORMAT

0 1

FORM VERSION

0 5

NO. OF CASE VEHICLES IN ACCIDENT

1

NUMBER OF SLIDES

45

TEAM REPORT NUMBER

Um-3737-98

SPECIAL STUDY

(00) None
(01) Offset Frontal
(98) Not Applicable

99

DATE OF FIELD INVESTIGATION:

98

INVESTIGATOR:

LOCATION WHERE VEHICLE WAS EVALUATED:

Michigan

CIRCLE PHOTO RECORDS MADE:

SLIDES

NEGATIVES

POLAROID

REPORT PREPARED BY:

Duplicate columns 1-8
from the previous card.Module G 1 Format 0 1
9 10 11 12

GENERAL INFORMATION GI-1

TIME

DATE OF COLLISION / /
m m d d y yHOUR OF COLLISION
(24 HOUR CLOCK) 19 22

LOCATION

STATE: MISTATE FIPS CODE 26
23 24

AREA

- (1) URBAN
-
- (2) RURAL
-
- (9) UNKNOWN
- 2
-
- 25

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO
-
- (1) YES
-
- (9) UNKNOWN
- 1
-
- 26

ROAD, TOTAL TRAFFIC LANES
(FOR CASE VEHICLE)

- (1) 1-LANE
-
- (2) 2-LANES
-
- (3) 3-LANES
-
- (4) 4 OR MORE LANES
-
- (5) DIVIDED, 4 OR MORE LANES
-
- (6) PARKING LOT/DRIVEWAY
-
- (7) OTHER:
-
-
- (9) UNKNOWN
- 5
-
- 27

INTERSECTING RD, TOTAL LANES

CHOOSE FROM ABOVE LIST, OR

- (8) NOT APPLICABLE
- 8
-
- 28

TYPE OF ROAD SURFACE

- (1) ASPHALT
-
- (2) CONCRETE
-
- (3) GRAVEL
-
- (4) MORE THAN ONE (CIRCLE EACH)
-
- (7) OTHER:
-
-
- (9) UNKNOWN
- 1
-
- 29

ROAD DEFECTS

- (0) NO
-
- (1) YES
-
- (9) UNKNOWN
- 0
-
- 30

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO
-
- (1) YES
-
- (9) UNKNOWN
- 0
-
- 31

ROAD ALIGNMENT
VERTICAL PLANE

- (1) LEVEL
-
- (2) CREST OF HILL
-
- (3) SLOPE (2%)
-
- (4) BOTTOM OF HILL
-
- (9) UNKNOWN
- 1
-
- 32

ROAD ALIGNMENT
HORIZONTAL PLANE

- (1) STRAIGHT
-
- (2) CURVE
-
- (3) T - SHAPED
-
- (4) Y - SHAPED
-
- (7) OTHER:
-
-
- (9) UNKNOWN
- 1
-
- 33

SURFACE COVERING

- (10) DRY
-
- (21) WATER - DAMP
-
- (22) WATER - WET
-
- (23) WATER - PUDDLED
-
- (29) WATER - AMOUNT UNKNOWN
-
- (31) SNOW - LOOSE
-
- (32) SNOW - PACKED
-
- (39) SNOW - CONDITION UNKNOWN
-
- (41) ICE
-
- (51) SLUSH
-
- (61) SPILLED GRAVEL
-
- (71) OTHER:
-
-
- (99) UNKNOWN
- 1 0
-
- 34 35

VISIBILITY LIMITATION
(FOR CASE VEHICLE)

- (0) NONE
-
- (1) CLOUDY/DARK
-
- (2) FOG
-
- (3) SMOKE
-
- (4) WINDSHIELD CONDITION
-
- (5) GLARE
-
- (6) RAIN
-
- (7) OTHER:
-
-
- (8) ICE/SNOW
-
- (9) UNKNOWN
- 0
-
- 36

VISIBILITY OBSTRUCTION
(FOR CASE VEHICLE)

- (0) NONE
-
- (1) BUILDING
-
- (2) SIGN
-
- (3) VEGETATION (E.G. BUSHES, SHRUBS)
-
- (4) TREE
-
- (5) HILL OR CURVE IN ROAD
-
- (6) VEHICLE IN TRANSPORT
-
- (7) OTHER:
-
-
- (8) PARKED VEHICLE
-
- (9) UNKNOWN
- 0
-
- 37

GENERAL INFORMATION GI-3

CRASH DETAILS

CASE VEHICLE AND OBJECT

- (0) NO
(1) YES
(9) UNKNOWN

1

45

HIGHEST POLICE INJURY
SEVERITY CODE IN CRASH
(NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
(1) C - POSSIBLE INJURY
(2) B - NON-INCAPACITATING INJURY
(3) A - INCAPACITATING INJURY
(4) K - FATAL
(5) INJURED, SEVERITY UNKNOWN
(6) DIED PRIOR TO ACCIDENT
(7) NON-FATAL INJURY
SEVERITY UNKNOWN
(9) UNKNOWN

3

53

CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
(1) YES, FIRST EVENT
(2) YES, SUBSEQUENT EVENT
(3) YES, SEQUENCE UNKNOWN
(9) UNKNOWN

①

46

CASE VEHICLE RAN OFF ROADWAY
(BEFORE FIRST IMPACT)

- (0) NO
(1) YES
(9) UNKNOWN

①

47

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT
(CASE VEHICLE)

- (0) NONE
(1) YES
(9) UNKNOWN/NOT REPORTED/
NO DRIVER

①

54

MOVING CASE VEHICLE AND
CONTACTED MOVING VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

①

48

DRIVER ALCOHOL BAC
(CASE VEHICLE)

- (80) NO TEST
(90) CHEMICAL TESTS, NO RESULTS
(95) AUTOPSY, NO RESULTS
(99) UNKNOWN

8 ①

55 56

CASE VEHICLE AND
CONTACTED STOPPED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

①

49

WAS THERE MENTION OF DRIVER
IMPAIRMENT FOR CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

①

57

STOPPED CASE VEHICLE AND
CONTACTED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

①

50

LIST IMPAIRMENTS MENTIONED:

TOTAL NUMBER
OF VEHICLES CONTACTED
BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
(9) UNKNOWN

①

51

POST - CRASH DETAIL

MANNER CASE VEHICLE
LEFT SCENE

- (1) DRIVEN
(2) TOWED DUE TO DAMAGE
(3) TOWED, NOT DUE TO DAMAGE
(4) TOWED, REASON UNKNOWN
(9) UNKNOWN

2

58

ANY FIRE IN THIS CRASH
(NOT JUST CASE VEHICLE)

- (0) NO
(1) YES
(9) UNKNOWN

①

52

ACCIDENT SCHEMATIC

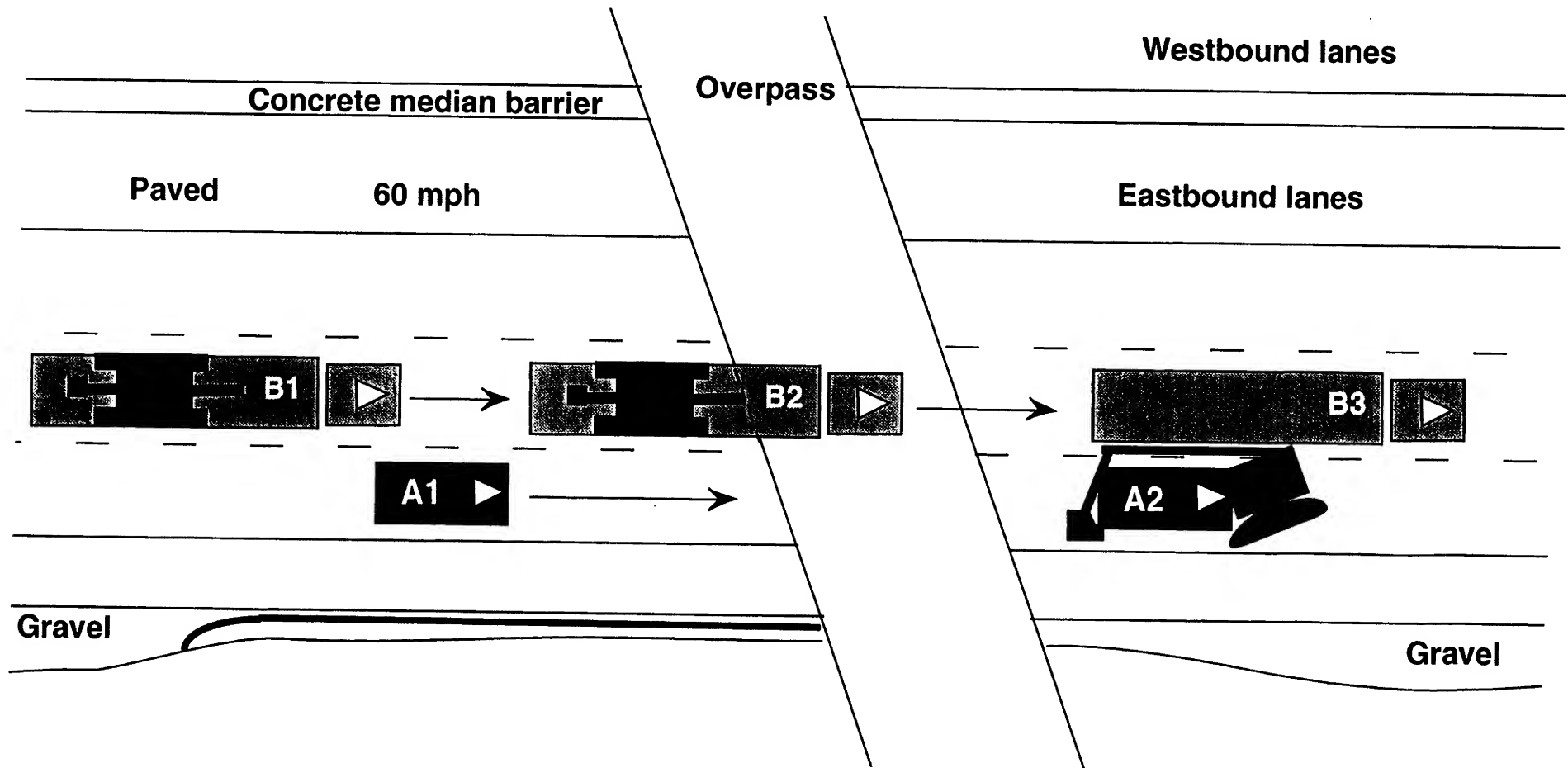
BEST AVAILABLE COPY

ACCIDENT DESCRIPTION: Case vehicle (A) was traveling in the outside eastbound lane of a six-lane divided highway. Vehicle (B) was traveling in the center lane ahead of case vehicle (A), hauling a [REDACTED] excavator. A vehicle (B) began to travel under an overpass, the boom of the excavator struck the overpass and fell from the trailer into the path of case vehicle (A). The driver of case vehicle (A) attempted to veer right, but the cab of the excavator struck case vehicle (A) as it fell, while the shovel contacted the right quarter panel of case vehicle (A). The driver of vehicle (B) pulled over to the shoulder after losing his load. Case vehicle (A) came to rest in its original travel lane facing east.

CASE VEHICLE (A): 1998 Lincoln Navigator
 OTHER VEHICLE (B): 1987 Kenworth T800 tractor/trailer
 THIRD VEHICLE (C): N/A



NORTH



Duplicate columns 1-8
from the previous card.Module 0 V Format 0 4
9 10 11 12

OTHER VEHICLE OV-1

MAKE: Kenworth
MODEL: T-800 tractor w/ trailerCARGO: excavatorVIN 1 N K D L 2 9 X 1 H J

MANUFAC/BODY CODE

16439
30 34

MAKE/MODEL CODE

8120
38

MODEL YEAR

1987
39 42

VEHICLE MASS (kg)

006032
43 48IF SEPARATE REPORT WAS MADE,
GIVE VEHICLE NUMBER0NUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN)01
51

TRAVELING SPEED (km/h)

999
54(000) PARKED OR STOPPED
(995) JUST STARTING UP
(996) BACKING UP
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
(998) SPEED EXCESSIVE (BUT UNKNOWN)
(999) UNKNOWNHIGHEST POLICE INJURY SEVERITY
CODE FOR THIS VEHICLE

- (0) O - NO INJURY
(1) C - POSSIBLE INJURY
(2) B - NON-INCAPACITATING INJURY
(3) A - INCAPACITATING INJURY
(4) K - FATAL
(5) INJURED, SEVERITY UNKNOWN
(6) DIED PRIOR TO ACCIDENT
(7) NON-FATAL INJURY
SEVERITY UNKNOWN
(8) UNOCCUPIED VEHICLE
(NOT APPLICABLE)
(9) UNKNOWN

0
55

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE
(03) LIMOUSINE
(17) PICKUP CAR
(20) UNKNOWN PASSENGER VEHICLE BODY
(24) SUB-MINI
(25) MINI
(26) SUB-COMPACT
(27) COMPACT
(28) INTERMEDIATE
(29) FULL

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
(15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER
(17) PICKUP CAR WITH CANOPY/SHELL COVER
(21) MOTOR HOME
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER
(23) PICKUP CAR WITH SLIDE-IN CAMPER
(31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN
(12) PICKUP TRUCK
(13) UNKNOWN LIGHT TRUCK
(15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER
(30) UNKNOWN TRUCK TYPE
(31) CHASSIS-MOUNTED CAMPER
(33) DELIVERY VAN (WALK-IN)
(34) STRAIGHT TRUCK
(35) TRUCK-TRACTOR (BOBTAIL)
(36) CHASSIS-CAB
(37) UNKNOWN HEAVY TRUCK
(38) TRACTOR & SEMI-TRAILER (SEMI)
(39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
(41) SCHOOL BUS
(42) INTERCITY BUS (BETWEEN CITIES)
(43) TRANSIT BUS (INTRACITY)
(44) STREETCAR (ON TRACKS)
(68) TRAIN (CARS)
(69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)
(999) UNKNOWN39
56 57406
58 59 60

Duplicate columns 1-8
from the previous card.

Module 0 V Format 0 2
9 10 11 12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase	<u>406</u> cm	Front Overhang	<u>119</u> cm
Curb Weight	<u>6032</u> kg	Rear Overhang	<u>119</u> cm
Average Track Width	<u>999</u> cm	Undeformed End Width (UEW)	<u>999</u> cm
Overall Length	<u>644</u> cm	Engine Displacement	<u>99</u> L
Overall Width (OAW)	<u>999</u> cm	Engine: # of Cylinders	<u>99</u>

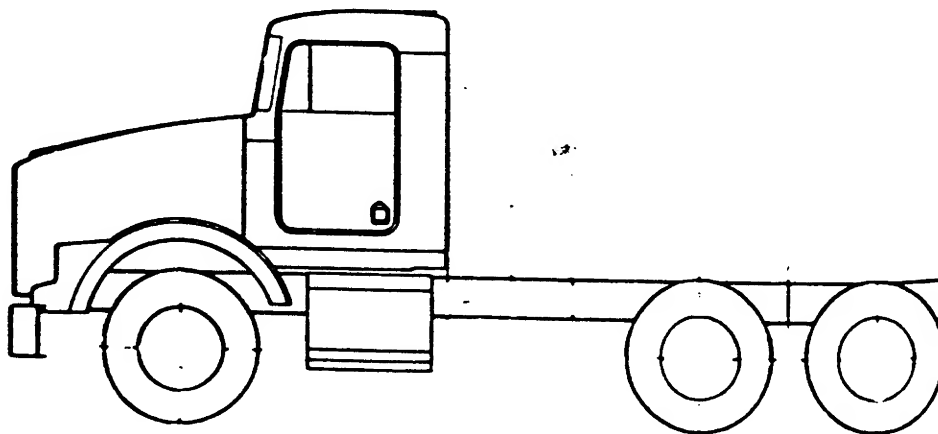
Note: Specification based on 1989 DT1

VEHICLE DAMAGE

Not Inspected

KENWORTH MODEL T-800

Standard GWR: 50,000 lbs.



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

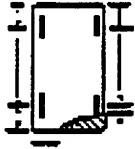
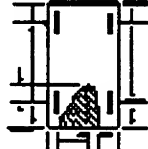
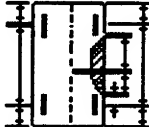

Direct Damage Length (DDL)

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$

999 cm
35 37
99 %
38 39
99 %
40 41

Duplicate columns 1-8 from the previous card. Module <u>V</u> <u>D</u> Format <u>0</u> <u>4</u> 9 10 11 12		VEHICLE DESCRIPTION VD-1	
MAKE: <u>Lincoln</u> MODEL: <u>Navigator 4x4</u>		CARGO: _____ _____	
VIN <u>5 L M P U 2 8 L 7 W L</u> XXXXXXXXXX <div style="text-align: right; margin-top: -10px;"> 13 29 </div>			
MANUFAC/BODY CODE <u>12215</u> <div style="text-align: right; margin-top: -10px;"> 30 34 </div>		<div> STOLEN VEHICLE (0) NO (1) YES (8) NOT COLLECTED (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 8 62 </div>	
MAKE/MODEL CODE <u>3218</u> <div style="text-align: right; margin-top: -10px;"> 38 </div>			
MODEL YEAR <u>1998</u> <div style="text-align: right; margin-top: -10px;"> 39 42 </div>			
VEHICLE MASS (kg) <u>002422</u> <div style="text-align: right; margin-top: -10px;"> 43 48 </div>			
ODOMETER (km) (ENTER 9'S IF UNKNOWN) (ENTER 8'S IF ELECTRONIC) <u>010980</u> <div style="text-align: right; margin-top: -10px;"> 49 54 </div>			
NUMBER OF OCCUPANTS (ENTER 9'S IF UNKNOWN) <u>03</u> <div style="text-align: right; margin-top: -10px;"> 56 </div>		<div> BODY STRUCTURE (1) BODY & FRAME (2) UNITIZED (3) INTEGRAL-STUB FRAME (4) BODY & PLATFORM FRAME (E.G. VW BUG) (5) PARTIALLY UNITIZED (7) OTHER: _____ (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 1 63 </div>	
TRAVELING SPEED (km/h) <u>999</u> <div style="text-align: right; margin-top: -10px;"> 59 </div>			
(000) PARKED OR STOPPED (995) JUST STARTING UP (996) BACKING UP (997) SPEED NOT EXCESSIVE (BUT UNKNOWN) (998) SPEED EXCESSIVE (BUT UNKNOWN) (999) UNKNOWN			
VEHICLE TYPE PASSENGER VEHICLE (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR) (12) 2-DOOR SEDAN OR COUPE (ANY UPPER B-PILLAR) (13) 4-DOOR HARDTOP (14) 4-DOOR SEDAN (15) STATION WAGON (16) CONVERTIBLE (18) OTHER PASS. VEH. : _____ (19) PASSENGER VEHICLE, TYPE UNKNOWN			
MULTIPURPOSE PASSENGER VEHICLE (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO) (22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN) (23) VAN, SIZE UNKNOWN (24) VAN, SMALL (MINI) (25) VAN, LARGE (29) MPV, TYPE UNKNOWN (30) MOTOR HOME			
TRUCK (31) PICKUP TRUCK, UNKNOWN (32) PICKUP TRUCK, SMALL (DOWNSIZED) (33) PICKUP TRUCK, LARGE (99) UNKNOWN		<div> TRANSMISSION (0) NONE (1) AUTOMATIC (2) MANUAL (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 1 64 </div>	
(22) 60 61		<div> LOCATION OF TRANSMISSION SELECTOR LEVER (1) FLOOR (2) CONSOLE (3) COLUMN (7) OTHER: _____ (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 3 65 </div>	
(22) 60 61		<div> STEERING (1) POWER (2) MANUAL (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 1 66 </div>	
(22) 60 61		<div> BRAKES (1) POWER (2) MANUAL (9) UNKNOWN </div> <div style="text-align: right; margin-top: -10px;"> 1 67 </div>	

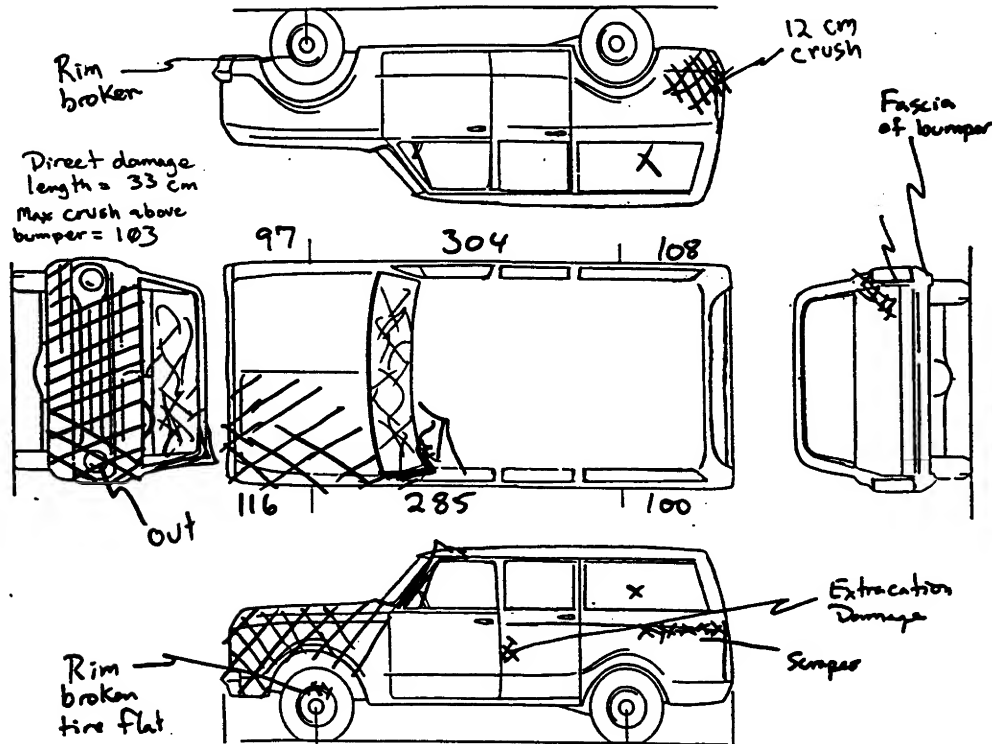
VEHICLE DESCRIPTION		VD-2
TYPE OF BRAKES (0) DRUM, ALL WHEELS (2) DISC, FRONT WHEELS (3) DISC, ALL WHEELS (9) UNKNOWN	<div style="text-align: center;">3 68</div>	WHEELBASE (cm) (999) Unknown <div style="text-align: right;">303 76 77 78</div>
BRAKE ANTI-LOCK DEVICE (0) NONE INSTALLED (1) TWO-WHEEL (2) FOUR-WHEEL (7) EQUIPPED, UNKNOWN WHEELS (9) UNKNOWN	<div style="text-align: center;">2 69</div>	PLASTIC ANTI-LACERATIVE INNER LAYER GLASS EQUIPPED (0) NONE (1) WINDSHIELD (2) WINDSHIELD AND SIDE (7) OTHER (9) UNKNOWN <div style="text-align: right;">0 79</div>
AIR CONDITIONING IN VEHICLE (0) NO (1) YES (8) NOT COLLECTED (9) UNKNOWN	<div style="text-align: center;">8 70</div>	
TYPE OF DRIVE (1) REAR WHEEL (2) FRONT WHEEL (3) FOUR WHEEL (4) ALL WHEEL DRIVE (9) UNKNOWN	<div style="text-align: center;">3 71</div>	FIELD INVESTIGATOR INSTRUCTIONS: 1. <u>INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.</u> 2. <u>ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.</u> 3. <u>ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.</u> 4. <u>ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.</u> EXAMPLES: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FRONT OR REAR</p> </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>SIDE</p> </div> <div style="text-align: center;">  <p>ROOF (REFERENCE TO TOP OF DOOR SILL OR WINDOW SILL)</p> </div> </div>
DUAL REAR WHEELS (0) NO (1) YES (9) UNKNOWN	<div style="text-align: center;">0 72</div>	
ORIGINAL TYPE OF RESTRAINT SYSTEM (1) ACTIVE BELT (2) PASSIVE BELT (3) AIRBAG (4) KNEE BOLSTERS (7) OTHER: _____ (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<div style="text-align: center;">3 73</div>	
EQUIPPED WITH ROLL BAR (0) NO (1) YES (9) UNKNOWN	<div style="text-align: center;">0 74</div>	
TYPE OF ROOF (0) NONE (1) SOLID (2) T-TOP CLOSED (3) T-TOP OPEN (4) SUN ROOF CLOSED (5) SUN ROOF OPEN (6) CONVERTIBLE CLOSED (7) CONVERTIBLE OPEN (8) OTHER: _____ (9) UNKNOWN	<div style="text-align: center;">1 75</div>	

Duplicate columns 1-8
from the previous card.Module V D Format 0 2
9 10 11 12VEHICLE DESCRIPTION **VD-3**

ORIGINAL SPECIFICATIONS

Wheelbase	<u>303</u> cm	Front Overhang	<u>098</u> cm
Curb Weight	<u>2422</u> kg	Rear Overhang	<u>119</u> cm
Average Track Width	<u>165</u> cm	Undeformed End Width (UEW)	<u>185</u> cm
Overall Length	<u>520</u> cm	Engine Displacement	<u>5.4</u> L
Overall Width (OAW)	<u>200</u> cm	Engine: # of Cylinders	<u>08</u>

VEHICLE DAMAGE



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL)

$$\text{Front-End Overlap (Percent)} = \frac{\text{DDL}}{\text{UEW}}$$

$$\text{Vehicle Overlap (Percent)} = \frac{\text{DDL} + 1/2 (\text{OAW} - \text{UEW})}{\text{OAW}}$$

<u>033</u> cm
<u>18</u> %
<u>20</u> %

Duplicate columns 1-8
from the previous card.Module D A Format 0 2
9 10 11 12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	1 13	
IMPACT SPEED (km/h)	999 14 15 16	998 35 36 37
ESTIMATED BY	1 17	8 38
CRUSH (cm)	103 18 19 20	998 39 40 41
CDC #1	12.FLAE.7 21 27	98.00000.0 42 48
CDC #2	00.RBES.2 28 34	98.00000.0 49 55

Duplicate columns 1-8
from the previous card.Module D A Format 0 3
9 10 11 12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	8 13	
IMPACT SPEED (km/h)		
ESTIMATED BY		
CRUSH (cm)		
CDC #1		
CDC #2		

CODES

EVENT NUMBER

(8) NOT APPLICABLE
(9) UNKNOWN

IMPACT SPEED

(998) NOT APPLICABLE
(999) UNKNOWN

IMPACT SPEED ESTIMATOR

(1) INVESTIGATOR
 (2) DRIVER
 (3) POLICE
 (4) "CRASH" PROGRAM
 (5) OTHER COMPUTER PROGRAM
 SPECIFY: _____
 (7) OTHER: _____
 (8) NOT APPLICABLE
 (NO VEHICLE/NO IMPACT)

CRUSH

(998) NOT APPLICABLE
(NO VEHICLE/DAMAGE)
(999) UNKNOWN

CDC

(9800000) NOT APPLICABLE
(9900000) UNKNOWN

Duplicate columns 1-8
from the previous card.Module D A Format 0 1
9 10 11 12

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 103
13 15RIGHT SIDE 012
16 18REAR 000
19 21LEFT SIDE 000
22 24ROOF 000
25 27OTHER 000
28 30CHRONOLOGICAL SEQUENCE
OF DAMAGE/INJURY PRODUCING CRASH EVENTS
FOR CASE VEHICLENOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER?1
31(0) NO
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>1</u> 32	<u>17</u> 34	<u>74</u> 36
#2	<u> </u> 37	<u> </u> 39	<u> </u> 41
#3	<u> </u> 42	<u> </u> 44	<u> </u> 46
#4	<u> </u> 47	<u> </u> 49	<u> </u> 51
#5	<u> </u> 52	<u> </u> 54	<u> </u> 56
#6	<u> </u> 57	<u> </u> 59	<u> </u> 61
#7	<u> </u> 62	<u> </u> 64	<u> </u> 66

CODES FOR
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

DAMAGE DA-4

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT
- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZEWHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8
from the previous card.Module C R Format 0 1
9 10 11 12

CRASH RECONSTRUCTION CR-1

for ΔV

	CASE VEHICLE PRIMARY IMPACT			CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE		CONTACTED VEHICLE	CASE VEHICLE		CONTACTED VEHICLE
EVENT NUMBER	1					
	13			47		
ΔV (km/h) TOTAL	999	888				
	14 15 16	32 33 34		48 49 50	66 67 68	
LONGITUDINAL *	9999	8888				
	17 20	35 38		51 54	69 72	
LATERAL *	9999	8888				
	21 24	39 42		55 58	73 76	
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN.						
EXAMPLES: 10 km/h = ± 010 -7 km/h = -007						
ENERGY DISSIPATED BY CRUSH (kj)	9999	8888				
	25 28	43 46		59 62	77 80	
RECONSTRUCTION						
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	09					
	29 30			63 64		
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL						
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL						
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL						
NOT RECONSTRUCTED BECAUSE						
(02) INSUFFICIENT DATA						
(03) EXCESSIVE UNDERRIDE/ OVERRIDE						
(04) ROLLOVER						
(05) VAULTING						
(06) OTHER TRAVEL IN MORE THAN ONE PLANE						
(07) NON-HORIZONTAL FORCE						
(08) SIDESWIPE-TYPE DAMAGE						
(09) YIELDING OBJECT						
(10) OTHER: _____						
(11) AT LEAST ONE VEHICLE BEYOND SCOPE						
(12) OTHER VEHICLE NOT INSPECTED						
MODE	5					
	31			65		
(1) CDC ONLY						
(2) CDC & DETAILED DAMAGE						
(3) TRAJECTORY & CDC						
(4) TRAJECTORY & CDC & DETAILED DAMAGE						
(5) NOT RECONSTRUCTED						
COMPUTER PROGRAM SPECIFY: _____						

Duplicate columns 1-8 from the previous card.		Module <u>C</u> <u>R</u> Format <u>0</u> <u>2</u> 9 10 11 12		CRASH RECONSTRUCTION CR-2 for EBS	
	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE	
EVENT NUMBER	<u>1</u> 13		<u>47</u>		
EBS (km/h) TOTAL	<u>036</u> 14 15 16	<u>888</u> 32 33 34	<u> </u> 48 49 50	<u> </u> 66 67 68	
LONGITUDINAL*	<u>-036</u> 17 20	<u>8888</u> 35 38	<u> </u> <u> </u> <u> </u> <u> </u> 51 54	<u> </u> <u> </u> <u> </u> <u> </u> 69 72	
LATERAL*	<u>+000</u> 21 24	<u>8888</u> 39 42	<u> </u> <u> </u> <u> </u> <u> </u> 55 58	<u> </u> <u> </u> <u> </u> <u> </u> 73 76	
*NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.					
EXAMPLES: 10 km/h = <u>±010</u> -7 km/h = <u>-007</u>					
ENERGY DISSIPATED BY CRUSH (kj)	<u>0126</u> 25 28	<u>8888</u> 43 46	<u> </u> <u> </u> <u> </u> <u> </u> 59 62	<u> </u> <u> </u> <u> </u> <u> </u> 77 80	
RECONSTRUCTION	<u>126,169</u>				
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>21</u> 29 30		<u> </u> <u> </u> 63 64		
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL					
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL					
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL					
NOT RECONSTRUCTED BECAUSE					
(02) INSUFFICIENT DATA					
(03) EXCESSIVE UNDERRIDE/OVERRIDE					
(04) ROLLOVER					
(05) VAULTING					
(06) OTHER TRAVEL IN MORE THAN ONE PLANE					
(07) NON-HORIZONTAL FORCE					
(08) SIDESWIPE-TYPE DAMAGE					
(09) YIELDING OBJECT					
(10) OTHER: _____					
(11) AT LEAST ONE VEHICLE BEYOND SCOPE					
(12) OTHER VEHICLE NOT INSPECTED					
MODE	<u>2</u> 31		<u> </u> 65		
(1) CDC ONLY					
(2) CDC & DETAILED DAMAGE					
(3) TRAJECTORY & CDC					
(4) TRAJECTORY & CDC & DETAILED DAMAGE					
(5) NOT RECONSTRUCTED					
COMPUTER PROGRAM SPECIFY: _____					

Duplicate columns 1-8
from the previous card.Module C R Format 0 3
9 10 11 12

CRASH RECONSTRUCTION CR-3

- NOTES:
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
 2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
 3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
 4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

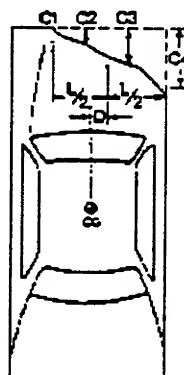
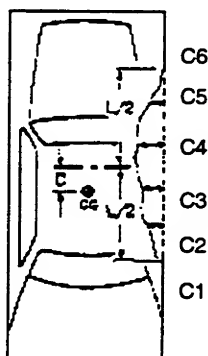
LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	Begins (L) front bumper corner	B.C. to B.C.

PLANE:

- (1) Bumper
- (2) Above Bumper
- (3) Sill
- (4) Above Sill
- (5) Other _____
- (9) Unknown

DL 33UDL 182

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage Length (DDL)	Max Crush	Field L	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	±D
1	Bumper	33	C1	161	12	0	0	0	0	13	-73.5
	-Free space				-15	-5	-2	-2	-5	-15	
					0	0	0	0	0	0	
	Above bumper				129	67	55	47	20	34	
	-Free space				26	15	10	10	15	26	
					103	52	45	37	5	8	
	Ave.				51.5	26	22.5	18.5			
1	5	033	103	161	052	026	023	019	005	008	-074
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2											

CRASH RECONSTRUCTION CR-4

Duplicate columns 1-8
from the previous card.Module W T Format 0 1
9 10 11 12

WHEELS AND TIRES

WT-1

WHEELS--DAMAGED

- (0) NO
(1) YES
(9) UNKNOWN

LF

1
13

RF

1

RR

0

LR

0
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P22570R16
25RF P22570R16
35RR P22570R16
45LR P22570R16
55

TIRE TREAD TYPE

- (1) REGULAR
(2) SNOW
(3) SLICKS
(4) ALL WEATHER (MS)
(7) OTHER: _____
(9) UNKNOWN

LF

4
17

RF

4

RR

4

LR

4
20

CARCASS CONSTRUCTION

- (1) BIAS
(2) BELTED BIAS
(3) RADIAL
(4) ELLIPTICAL
(5) HI PRESSURE SPARE
(6) SPACE SAVER SPARE
(7) OTHER: _____
(9) UNKNOWN

LF

3
21

RF

3

RR

3

LR

3
24

IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.

NOTES: _____

Duplicate columns 1-8
from the previous card.

Module F T Format 0 1
9 10 11 12

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL (1) GASOLINE (2) DIESEL OIL (3) LPG (4) ELECTRIC (7) OTHER: _____ (9) UNKNOWN	<u>1</u> 13	AUXILIARY TANK TYPE (1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<u>8</u> 21
MAIN TANK LOCATION	<u>122</u> 14 16	AUXILIARY TANK LOCATION	<u>888</u> 22 24
MAIN FILLER CAP LOCATION	<u>113</u> 17 19	AUXILIARY FILLER CAP LOCATION	<u>888</u> 25 27
MAIN TANK MATERIAL	<u>1</u> 20	AUXILIARY TANK MATERIAL	<u>8</u> 28

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.Module F L Format 0 1
9 10 11 12

FUEL LEAKAGE FL-1

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.(1) YES COMPLETE PAGE.

13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>14</u> <u>15</u>	—	—	—	— —	<u>21</u>
#2	<u>22</u> <u>23</u>	—	—	—	— —	<u>29</u>
#3	<u>30</u> <u>31</u>	—	—	—	— —	<u>37</u>
#4	<u>38</u> <u>39</u>	—	—	—	— —	<u>45</u>
#5	<u>46</u> <u>47</u>	—	—	—	— —	<u>53</u>

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT
(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

FIRE FR-1

Duplicate columns 1-8
from the previous card.Module F R Format 0 1
9 10 11 12

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.(1) YES COMPLETE PAGE.①
13

DID FIRE START IN CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

14

SEVERITY OF FIRE DAMAGE

- (1) MINOR
(2) MODERATE
(3) SEVERE
(9) UNKNOWN

16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
(2) SLOW/MODERATE
(9) UNKNOWN

15DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8
from the previous card.Module E D Format 0 1
9 10 11 12

EXTERIOR DAMAGE

ED-1

HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

HOOD LATCH(ES) -RELEASED

-DAMAGED

-JAMMED

HOOD HINGES- -LEFT, DAMAGED

-LEFT, SEPARATED
(COMPLETE)

-RIGHT, DAMAGED

-RIGHT, SEPARATED
(COMPLETE)

HOOD REMAINED ON VEHICLE

REAR EDGE OF HOOD- -ELEVATED

-CONTACTED WINDSHIELD

-PENETRATED WINDSHIELD

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
(2) COWL AREA
(3) SIDE
(8) NOT APPLICABLE
(9) UNKNOWN

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO
(1) YES
(9) UNKNOWN

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
(1) FLEXIBLE MATERIAL
(2) POT
(3) SINGLE U-JOINT
(4) DOUBLE U-JOINT
(5) FLEXIBLE CABLE
(6) COMBINATION OF ABOVE
(CIRCLE EACH)
(7) OTHER: _____
(8) EQUIPPED, TYPE UNKNOWN
(9) UNKNOWN, IF EQUIPPED

COUPLING-

-DAMAGED

(USE CODES
FROM HOOD
PERFORMANCE)

-SEPARATED
(COMPLETE)

ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
(01) - (07) SEE UNITS ON PAGE ED-2
(88) NOT COLLECTED
(97) OTHER: _____
(98) EQUIPPED, TYPE UNKNOWN
(99) UNKNOWN IF EQUIPPED

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED
(991) NOT MEASURED/NO
COMPRESSION
(992) COMPRESSED, AMOUNT
UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT
EQUIPPED)
(999) UNKNOWN

EXTERIOR DAMAGE

ED-2

LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

①
 34

LEFT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-PILLAR, UPPER

4
 35

LOWER

4
 36

-B-PILLAR, UPPER

4
 37

LOWER

①
 38

-C-PILLAR, UPPER

①
 39

LOWER

①
 40

-D-PILLAR, UPPER

①
 41

LOWER

①
 42

LEFT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
 (2) DOOR-LATCH SEPARATION
 (3) LATCH-STRIKER SEPARATION
 (4) STRIKER-PILLAR SEPARATION
 (5) BODY DISTORTION
 (6) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

①
 43

-REAR

①
 44

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

1
 45

-REAR

①
 46

EXTERIOR DAMAGE

ED-3

REAR DOOR

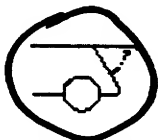
REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
 (1) HATCHBACK
 (2) ONE-WAY TAILGATE
 (3) TWO-WAY TAILGATE
 (4) CLAMSHELL/DISAPPEARING TAILGATE
 (5) SINGLE DOOR
 (6) DOUBLE DOOR
 (9) UNKNOWN

Hatchback



One-way



Two-way



or



Clamshell



Single door



Double door

HOW DID DOOR
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
 (2) DOOR-LATCH SEPARATION
 (3) LATCH-STRIKER SEPARATION
 (4) STRIKER-PILLAR SEPARATION
 (5) BODY DISTORTION
 (6) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (7) OPENED, REASON UNKNOWN
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

DOOR JAMMED CLOSED

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

2
47⊖
48⊖
49

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA
DAMAGED DURING COLLISION?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

8
50

SPARE TIRE

- (0) NO SPARE TIRE
 (1) NOT ATTACHED BEFORE COLLISION
 (2) ATTACHED, NOT SEPARATED IN COLLISION
 (3) ATTACHED, SEPARATED DUE TO COLLISION
 (8) NOT COLLECTED
 (9) UNKNOWN

8
51

TRAILER HITCH TYPE

- (0) NO HITCH

BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
 (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
 (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
 (4) LOAD EQUALIZING

OTHER TYPES

- (5) RING-AND-PINTLE
 (6) FIFTH-WHEEL (INCL. P/U)
 (7) OTHER (E.G. CLEVIS-AND-PIN)















Reese

- (8) EQUIPPED, TYPE UNKNOWN
 (9) UNKNOWN IF EQUIPPED

7
52TRAILER TYPE
(AT TIME OF COLLISION)

- (0) NO TRAILER
 (1) TRAVEL-TRAILER/CAMPER
 (2) MOBILE HOME
 (3) BOAT/SNOWMOBILE/ATV TRAILER
 (4) UTILITY TRAILER
 (5) TOWED CAR
 (7) OTHER: _____
 (8) TRAILER, TYPE UNKNOWN
 (9) UNKNOWN

⊖
53

EXTERIOR DAMAGE		ED-4
RIGHT-SIDE BODY MOUNT DID BODY MOUNT SEPARATE? (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	 54	RIGHT DOORS HOW DID DOORS OPEN DURING COLLISION? USE CODES: (00) DOOR DID NOT OPEN OPENED BECAUSE OF (01) HINGE AREA SEPARATION (02) DOOR-LATCH SEPARATION (03) LATCH-STRIKER SEPARATION (04) STRIKER-PILLAR SEPARATION (05) BODY DISTORTION (06) COMBINATION OF ABOVE <i>(CIRCLE EACH)</i> (07) OPENED, REASON UNKNOWN (11) VAN RIGHT-REAR DOOR OPENED <i>(ANY MECHANISM)</i> (98) NOT APPLICABLE (NO DOOR) (99) UNKNOWN
RIGHT PILLARS PILLARS SEPARATED COMPLETELY - USE CODES: (0) NO (1) YES (4) NO SEPARATION, BUT DAMAGED (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<div> -A-PILLAR, UPPER  55 </div> <div> LOWER  56 </div> <div> -B-PILLAR, UPPER  57 </div> <div> LOWER  58 </div> <div> -C-PILLAR, UPPER  59 </div> <div> LOWER  60 </div> <div> -D-PILLAR, UPPER  61 </div> <div> LOWER  62 </div>	<div> -FRONT  63 64 </div> <div> -REAR  65 66 </div> <div> DOORS JAMMED CLOSED- USE CODES: (0) NO (1) YES (8) NOT APPLICABLE (NO DOOR) (9) UNKNOWN </div> <div> -FRONT  67 </div> <div> -REAR  68 </div> <div> VAN REAR DOOR TYPE (0) VAN, NO REAR DOOR (1) TRACK (SLIDING) - RIGHT SIDE (2) SINGLE-HINGED - RIGHT SIDE (3) DOUBLE-HINGED - RIGHT SIDE (4) TRACK (SLIDING) - RIGHT & LEFT SIDE (5) SINGLE-HINGED - RIGHT & LEFT SIDE (6) DOUBLE-HINGED - RIGHT & LEFT SIDE (7) TRACK AND HINGED COMBINATION (8) NOT APPLICABLE (NOT A VAN) (9) UNKNOWN </div> <div>  69 </div>

EXTERIOR DAMAGE

ED-5

WINDSHIELD DAMAGE

WINDSHIELD CRACKED

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

1
70

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

1
71

CRACKED OR BROKEN
BY OCCUPANT CONTACT

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

0
72

EXTENT OF BOND SEPARATION

- (0) NONE
(1) 1 - 20%
(2) 21 - 40
(3) 41 - 60
(4) 61 - 80
(5) 81 - 99
(6) TOTAL
(7) SEPARATED, AMOUNT
UNKNOWN
(8) NOT APPLICABLE
(9) UNKNOWN

0
73

WINDSHIELD MARK ON CASE VEHICLE:

WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED
(98) NOT APPLICABLE (NO WINDSHIELD)
(99) UNKNOWN

99
74 75

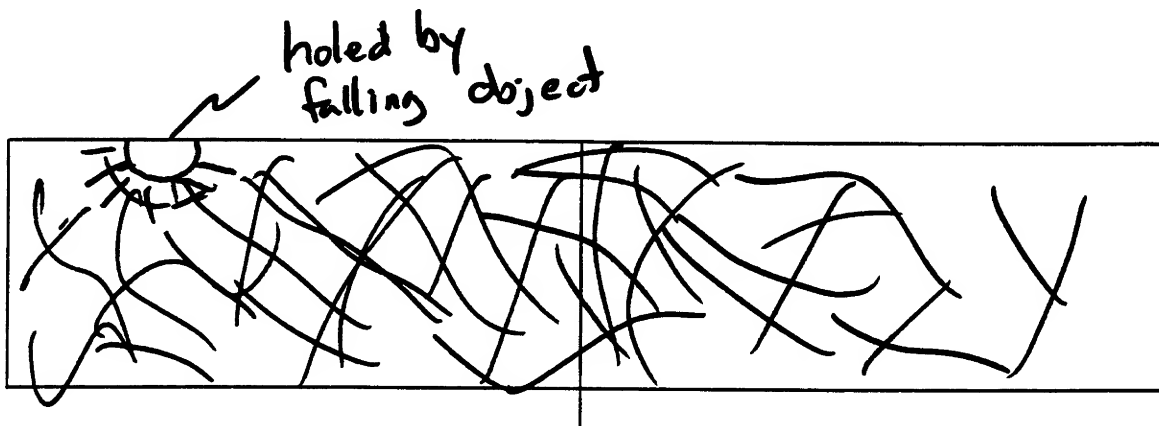
Roof

DID T-ROOF/SUN ROOF OPEN
DURING COLLISION?

- (0) NO
(1) YES
(8) NOT APPLICABLE
(NOT A T-ROOF OR SUN ROOF)
(9) UNKNOWN

8
76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



unk.
L

unk.
C

unk.
R

Duplicate columns 1-8
from the previous card.Module S C Format 0 1
9 10 11 12

STEERING WHEEL AND COLUMN SC-1

STEERING WHEEL

STEERING WHEEL RIM DAMAGE

- (0) NONE
 (1) DEFORMED SLIGHTLY
 (2) SEVERELY BENT
 (3) BROKEN
 (9) UNKNOWN

8 cm

2
13NUMBER OF
STEERING WHEEL SPOKES

- (9) UNKNOWN

2
14

STEERING WHL SPOKE DAMAGE

- (0) NONE
 (1) DEFORMED SLIGHTLY
 (2) SEVERELY BENT
 (3) BROKEN
 (9) UNKNOWN

2
15STEERING WHEEL POSITION
AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE
 NORMAL TOP OF THE WHEEL POINTED
 WHEN THE COLLISION OCCURRED?

EXAMPLES

O'CLOCK = 1 2

(NORMAL STRAIGHT
AHEAD)

O'CLOCK = 0 2



O'CLOCK = 01

per driver

(99) UNKNOWN

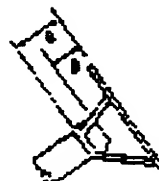
STEERING WHEEL
ENERGY ABSORBING DEVICE

(1) EXAMPLES:



BARRACUDA, 70 - 74
 CHALLENGER, 70 - 74
 CAPRI, 71 - 77

(2) EXAMPLES:



OMNI, 78 -
 HORIZON, 78 -

STEERING COLUMN OPTIONS

TILT FEATURE

- (0) NOT EQUIPPED
 (1) YES, EQUIPPED, UNK POSITION
 (2) UP
 (3) MIDDLE
 (4) LOWER
 (9) UNKNOWN IF EQUIPPED

1
16

SWING-AWAY FEATURE

- (0) NOT EQUIPPED
 (1) YES, EQUIPPED
 (9) UNKNOWN IF EQUIPPED

1
17

TELESCOPING FEATURE

- (0) NOT EQUIPPED
 (1) YES, EQUIPPED
 (9) UNKNOWN IF EQUIPPED

1
18

TYPE OF DEVICE

- (0) NONE
 (1) CONVOLUTED OR MESH CYLINDER
 (2) DEEP DISH STEERING WHEEL
 (7) OTHER: _____
 (8) NOT COLLECTED
 (9) UNKNOWN IF EQUIPPED

8
19

ORIGINAL DIMENSION (mm)

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
 (991) NOT MEASURED/NO APPARENT
 COMPRESSION
 (992) COMPRESSED, AMOUNT UNKNOWN
 (993) DEVICE EXTENDED
 (997) UNABLE TO MEASURE
 (998) NOT APPLICABLE (NOT EQUIPPED)
 (999) UNKNOWN

8 8 8
20 22

STEERING WHEEL AND COLUMN SC-2

STEERING COLUMN
ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
(88) NOT COLLECTED
(99) UNKNOWN

$\frac{8}{23}$ $\frac{8}{24}$

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODE 36, 48,
OR 49 ABOVE)
OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ± 10)

- (888) NOT COLLECTED
(991) NOT MEASURED/NO APPARENT
COMPRESSION
(992) COMPRESSED, AMOUNT UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT EQUIPPED)
(999) UNKNOWN

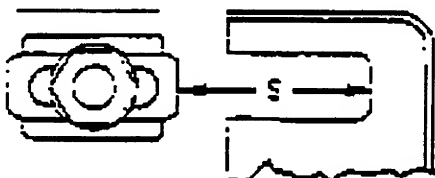
$\frac{8}{25}$ $\frac{8}{26}$ $\frac{8}{27}$

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED
(991) NOT MEASURED/NO APPARENT
SEPARATION
(992) SEPARATED, AMOUNT UNKNOWN
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT EQUIPPED)
(999) UNKNOWN

$\frac{8}{28}$ $\frac{8}{29}$ $\frac{8}{30}$

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
(1) UPWARD APPARENT ROTATION
(2) DOWNWARD APPARENT ROTATION
(9) UNKNOWN

$\frac{0}{31}$

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION
(1) LEFT APPARENT ROTATION
(2) RIGHT APPARENT ROTATION
(9) UNKNOWN

$\frac{1}{32}$

STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE
(1) OCCUPANT CONTACT
(2) AIRBAG
(3) OTHER _____
(9) UNKNOWN

$\frac{0}{33}$

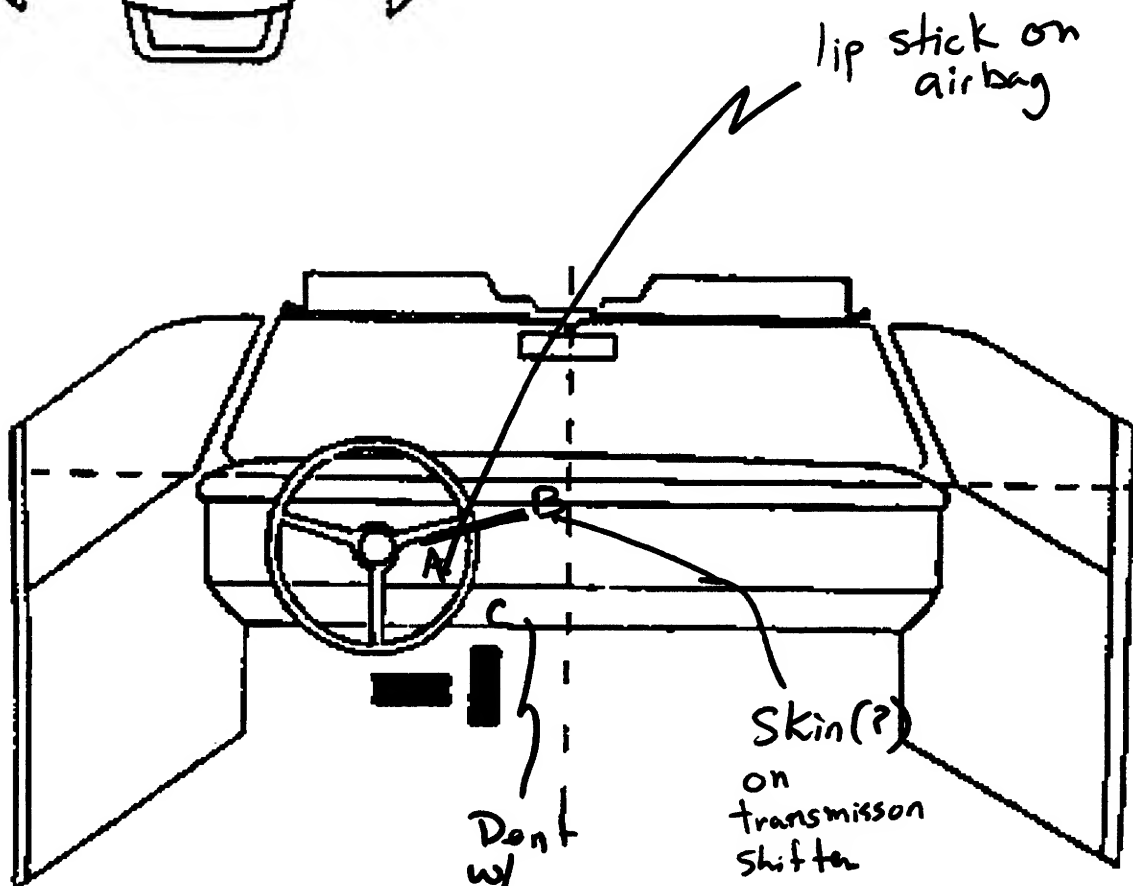
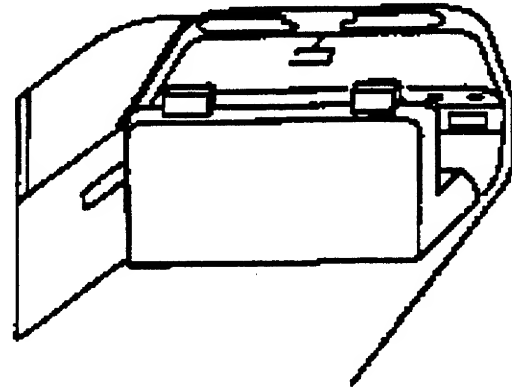
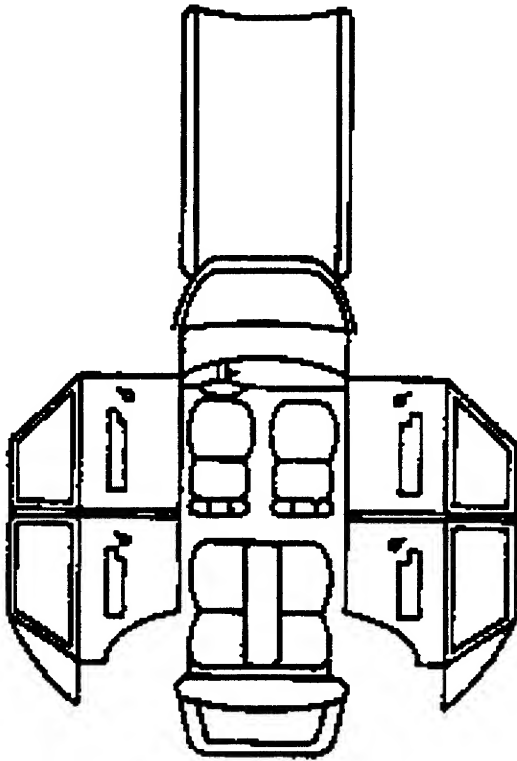
INTRUSION IT-1						
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	—	Intruded Value	= Intrusion	
11	Header	58	—	37	= 21	rearward
11	A-pillar	56	—	31	= 25	"
11	SW hub	60	—	16	= 44	"
11	I.P.	68	—	23	= 45	"
11	Parking brake	86	—	65	= 21	"
11	Brake	101	—	51	= 50	"
11	Roof	120	—	111	= 9	Down
11	Siderrail	119	—	110	= 9	"
12	I.P.	78	—	51	= 27	rearward
13	I.P.	82	—	67	= 15	"
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	
			—		=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Airbag	1	face	lip stick transfer	1
B	Shifter	1	arm	skin(?) on shifter	(2)
C	Knee bolster	1	Knee	Dent w/ scuff mark	1
D					
E					
F					
G					
H					
I					
J					

INTRUSION IT-2

VEHICLE OCCUPANT CONTACT DIAGRAM



Brake pedal
Penetrates the face
of the seat cushion
on driver's side

Don't w/
Scuff
mark

Skin(?)
on
transmisson
shifter

INTRUSION IT-3**CODES FOR COLUMN B, OCCUPANT SPACE NUMBER**

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- | | | | |
|--------------------------|-----------------|-------------------------|---|
| (1) LEFT | (3) RIGHT | | INDIVIDUAL SEAT |
| (1) LEFT | (2) CENTER | (3) RIGHT | BENCH: FULL WIDTH 3 PASSENGER |
| (1) LEFT | (2) LEFT CENTER | (6) RIGHT CENTER | (3) RIGHT BENCH: FULL WIDTH 4 PASSENGER |
| (1) LEFT | (2) CENTER | (5) RIGHT & AISLE SPACE | BENCH: PARTIAL WIDTH, LEFT |
| (0) LEFT & SPACE | (2) CENTER | (5) RIGHT & SPACE | BENCH: PARTIAL WIDTH, CENTERED |
| (4) ENTIRE VEHICLE WIDTH | | CARGO AREA | |

EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X 41 42 46 43

CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
(Y) Y-AXIS (LATERAL)
(Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	<u>CONTACT</u>
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

INTRUSION IT-4

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT

INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (*DESCRIBE*)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER
COMPARTMENT BUT PART
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (*E.G. SPARE TIRE,
JACK. DESCRIBE.*)
- (49) UNKNOWN EXTERNAL OBJECT

GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

**USE ONLY IF ALL THESE COMPONENTS
INTRUDED INTO A SINGLE OCCUPANT SPACE.**

- | | |
|------------------------|-------------------------|
| (50) WINDSHIELD HEADER | (60) ROOF |
| A-PILLAR | ROOF RAIL |
| ROOF SIDE RAIL | A-PILLAR |
| | B-PILLAR |
| | C-PILLAR |
| (51) INSTRUMENT PANEL | WINDOW FRAME |
| A-PILLAR | DOOR PANEL |
| DOOR PANEL | FLOOR PAN |
| (52) INSTRUMENT PANEL | |
| A-PILLAR | (61) INSTRUMENT PANEL |
| WINDSHIELD HEADER | TOE PAN |
| | WINDSHIELD HEADER |
| (53) DOOR PANEL | A-PILLAR |
| B-PILLAR | ROOF RAIL |
| ROOF RAIL | WINDOW FRAME |
| | DOOR PANEL |
| (54) DOOR PANEL | ROOF |
| A-PILLAR | |
| ROOF RAIL | (62) ROOF |
| | ROOF RAIL |
| (55) INSTRUMENT PANEL | C-PILLAR |
| FLOOR PAN | WINDOW FRAME |
| A-PILLAR | FLOOR PAN |
| DOOR FRAME | SECOND SEAT |
| | DOOR PANEL |
| (56) ROOF RAIL | |
| A-PILLAR | (63) ROOF RAIL |
| B-PILLAR | ROOF |
| WINDOW FRAME | B-PILLAR |
| | WINDOW FRAME |
| (57) ROOF RAIL | FLOOR PAN |
| A-PILLAR | DOOR PANEL |
| B-PILLAR | SECOND SEAT |
| C-PILLAR | FRONT SEAT |
| DOOR PANEL | |
| | (64) ROOF RAIL |
| (58) ROOF | ROOF OR CONVERTIBLE TOP |
| ROOF RAIL | A-PILLAR |
| WINDOW FRAME | B-PILLAR |
| DOOR PANEL | WINDOW FRAME |
| | WINDOW HEADER |
| (59) BACKLIGHT HEADER | |
| ROOF | (65) WINDSHIELD |
| C-PILLAR | WINDSHIELD HEADER |
| THIRD SEAT-BACK | ROOF SIDE RAIL |
| | |
| | (66) WINDSHIELD |
| | WINDSHIELD HEADER |
| | A-PILLAR |
| | |
| | (98) NOT APPLICABLE |
| | (99) UNKNOWN |

INTRUSION IT-5

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 1
9 10 11 12WAS THERE OCCUPANT COMPARTMENT INTRUSION? 1

13

WAS INTRUSION CATASTROPHIC? 0

14

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.
 (1) YES ANSWER NEXT QUESTION.
 (9) UNKNOWN SKIP PAGE.

- (0) NO COMPLETE PAGE.
 (1) YES SKIP PAGE.

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 2
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
 CODES FOR B, F, G, H, I, J ON PAGE IT-3
 CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	<u>11</u>	<u>07</u>	<u>1</u>	<u>21</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 2</u>	<u>11</u>	<u>08</u>	<u>1</u>	<u>25</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 3</u>	<u>11</u>	<u>05</u>	<u>1</u>	<u>44</u>	<u>00</u>	<u>00</u>	<u>01</u>	<u>01</u>	<u>00</u>	<u>00</u>
<u>0 4</u>	<u>11</u>	<u>01</u>	<u>1</u>	<u>45</u>	<u>00</u>	<u>00</u>	<u>01</u>	<u>01</u>	<u>01</u>	<u>02</u>
<u>0 5</u>	<u>11</u>	<u>25</u>	<u>1</u>	<u>21</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 6</u>	<u>11</u>	<u>25</u>	<u>1</u>	<u>50</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 7</u>	<u>11</u>	<u>14</u>	<u>1</u>	<u>00</u>	<u>00</u>	<u>09</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 3
9 10 11 12NOTE: IF NO SIDE DOOR INTRUSION,
SKIP REMAINDER OF PAGE.SIDE DOOR INTRUSION
RESULTED FROMINTRUSION
NUMBER CAUSECODES
FOR CAUSE:

- 13 15 (1) DIRECT
IMPACT
16 18 (2) INDUCED
DAMAGE
19 21 (9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED
DOOR INTRUSION, CODE COMPONENTINTRUSION
NUMBERDAMAGED
COMPONENT 1DAMAGED
COMPONENT 2CODES
FOR COMPONENTSA 22 2325B 26 2729C 30 3133D 34 3537

- (0) NONE
 (1) A-PILLAR
 (2) B-PILLAR
 (3) C-PILLAR
 (4) LATCH/STRIKER
 (5) HINGES
 (7) OTHER: _____
 (8) NOT APPLICABLE
 (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module 1 1 Format 0 2
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

- ADDITIONAL PAGE -

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	<u>11</u>	<u>15</u>	<u>1</u>	<u>00</u>	<u>00</u>	<u>09</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 9</u>	<u>12</u>	<u>01</u>	<u>1</u>	<u>27</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>1 0</u>	<u>13</u>	<u>01</u>	<u>1</u>	<u>15</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>1 1</u>	---	---	---	---	---	---	---	---	---	---
<u>1 2</u>	---	---	---	---	---	---	---	---	---	---
<u>1 3</u>	---	---	---	---	---	---	---	---	---	---
<u>1 4</u>	---	---	---	---	---	---	---	---	---	---
<u>1 5</u>	---	---	---	---	---	---	---	---	---	---
<u>1 6</u>	---	---	---	---	---	---	---	---	---	---
<u>1 7</u>	---	---	---	---	---	---	---	---	---	---
<u>1 8</u>	---	---	---	---	---	---	---	---	---	---
<u>1 9</u>	---	---	---	---	---	---	---	---	---	---
<u>2 0</u>	---	---	---	---	---	---	---	---	---	---
<u>2 1</u>	---	---	---	---	---	---	---	---	---	---
<u>2 2</u>	---	---	---	---	---	---	---	---	---	---
<u>2 3</u>	---	---	---	---	---	---	---	---	---	---
<u>2 4</u>	---	---	---	---	---	---	---	---	---	---
<u>2 5</u>	---	---	---	---	---	---	---	---	---	---

Duplicate columns 1-8
from the previous card.

Module 1 D Format 0 1
9 10 11 12

INTERIOR DAMAGE

ID-1

CODES:

- (0) NO
(1) YES
(3) NO, and OCCUPANT CONTACT
(4) YES, and OCCUPANT CONTACT
(8) NOT APPLICABLE
(9) UNKNOWN

	LEFT	RIGHT				
SIDES			FRONT		INSTRUMENT PANEL	
FRONT DOOR	<u>1</u> 13	<u>0</u> 14	FOOT CONTROLS	<u>1</u> 45	UPPER PANEL	<u>1</u> 55
FRONT HARDWARE	<u>1</u> 15	<u>0</u> 16	IGNITION KEYS	<u>0</u> 46	MID PANEL	<u>1</u> 56
FRONT ARMREST	<u>1</u> 17	<u>0</u> 18	REAR VIEW MIRROR	<u>1</u> 47	LOWER PANEL	<u>4</u> 57
FRONT GLASS	<u>1</u> 19	<u>0</u> 20	SUNVISOR/FITTINGS	<u>0</u> 48	ASHTRAY	<u>0</u> 58
REAR DOOR AREA	<u>0</u> 21	<u>0</u> 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	<u>1</u> 59
REAR HARDWARE	<u>0</u> 23	<u>0</u> 24	WINDSHIELD TOP MOLDINGS	<u>1</u> 49	GLOVE COMPARTMENT AREA	<u>0</u> 60
REAR ARMREST	<u>0</u> 25	<u>0</u> 26	LEFT A-PILLAR (UPPER OR LOWER)	<u>1</u> 50	INSTRUMENTS	<u>0</u> 61
REAR GLASS	<u>0</u> 27	<u>0</u> 28	RIGHT A-PILLAR (UPPER OR LOWER)	<u>0</u> 51	PARKING BRAKE RELEASE	<u>1</u> 62
ROOF SIDE RAIL	<u>1</u> 29	<u>0</u> 30	CENTER CONSOLE	<u>1</u> 52	PARKING BRAKE PEDAL	<u>1</u> 63
B-PILLAR	<u>0</u> 31	<u>0</u> 32	TRANSMISSION SELECTOR LEVER	<u>4</u> 53	A/C OR UPPER VENT OUTLETS	<u>0</u> 64
C-PILLAR	<u>0</u> 33	<u>0</u> 34	RIM, HORN, SPOKE	<u>4</u> 54	HEATER OR A/C DUCTS	<u>1</u> 65
D-PILLAR	<u>0</u> 35	<u>0</u> 36			RADIO	<u>0</u> 66
HEADLINING	<u>0</u> 37	<u>0</u> 38			OTHER: * _____	<u>0</u> 67
ROOF STRUCTURE	<u>1</u> 39	<u>0</u> 40				
T-ROOF/SUN ROOF	<u>8</u> 41	<u>8</u> 42				
OTHER: * _____	<u>8</u> 43	<u>8</u> 44				
					REAR	
					WINDOW	<u>0</u> 68
					WINDOW HEADER	<u>0</u> 69
					CONSOLES	
					VERTICAL	<u>8</u> 70
					ROOF	<u>0</u> 71

* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8 from the previous card.		Module <u>S</u> <u>T</u> 9 10		Format <u>0</u> <u>2</u> 11 12		SEATS		ST-1	
FRONT SEAT		DRIVER		PASSENGER		FRONT SEAT-BACK		DRIVER PASSENGER	
TYPE OF FRONT SEAT (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN		<u>05</u> 13 14		<u>05</u> 15 16		SEAT-BACK TYPE (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>3</u> 30 31	
TYPE OF SEAT MOUNT (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 17		<u>1</u> 18		SEAT-BACK LOCK TYPE (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 32 33	
SWIVEL MECHANISM EQUIPPED (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 19		<u>0</u> 20		LOCKS HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 34 35	
ORIGINAL EQUIPMENT SEATS (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 21		<u>1</u> 22		RECLINER MECHANISM HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 36 37	
CONTACT OF SEAT BY REAR OCCUPANT (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 23		<u>0</u> 24					
FRONT SEAT DAMAGE (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 25		<u>0</u> 26		HEAD RESTRAINT HEAD RESTRAINT TYPE (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 38 39	
CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED		<u>0</u> 27				REMOVED PRE-CRASH (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 40 41	
FRONT SEAT ROTATION (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 28		<u>0</u> 29		ADJUSTMENT AT CRASH (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 42 43	
						HEAD RESTRAINT DAMAGE (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 44 45	

SEATS ST-2						
FRONT SEAT ADJUSTMENT SEAT ADJUSTMENT TYPE (0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN ADJUSTMENT PROVIDED (1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN SEAT ADJUSTER DAMAGE (0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN SEAT ADJUSTER SEPARATION (0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN PRE-CRASH POSITION (1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN	DRIVER 2 46	PASSENGER 2 47	SECOND SEAT (CONT.) CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	0 60		
		3 48	3 49	SECOND SEAT-BACK LOCKS FOR THE FOLLOWING, USE: (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN LEFT OR CENTER, EQUIPPED LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN RIGHT, EQUIPPED RIGHT, HELD (3) SEAT FOLDED DOWN	LEFT 1 61 1 63 0 65 8 67	RIGHT 0 62 8 64 1 66 1 68
		0 50	0 51			
		8 52	8 53			
SECOND SEAT TYPE OF SECOND SEAT (0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN SECOND SEAT DAMAGE (0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (4) INTEGRAL CHILD SEAT (PRIORITY CODE) (5) LUGGAGE AREA ACCESS PANEL (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN	LEFT 2 56	RIGHT 2 57	THIRD SEAT * <i>removed prior to accident</i> EQUIPPED BACKREST DAMAGED CUSHION DAMAGED	0 69 8 71 8 73	0 70 8 72 8 74	
	0 58	0 59	VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS (0) NOT EQUIPPED (OR REMOVED) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (NO REAR SEAT) (9) UNKNOWN <i>Applies to any rear-seat position</i>	1 75		

Duplicate columns 1-8
from the previous card.Module A B Format 0 1
9 10 11 12

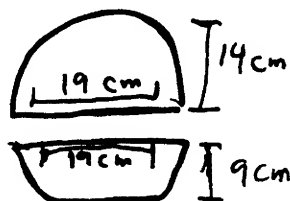
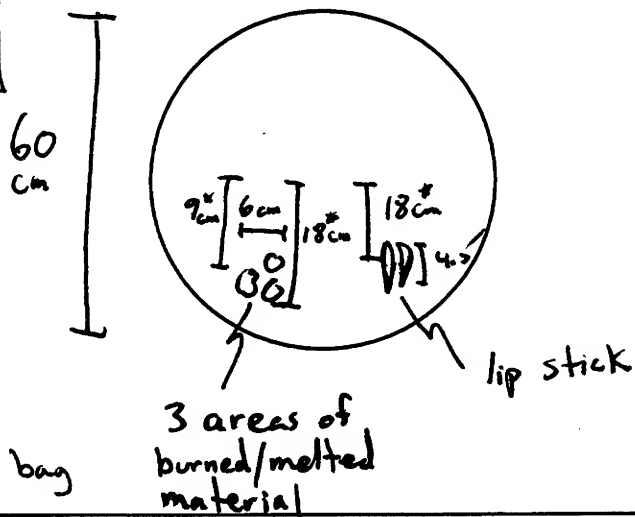
AIRBAG AB-1

<p style="text-align: center;">DRIVER SIDE</p> <p style="text-align: center;">LOCATION OF AIRBAG</p> <p style="text-align: center;">STEERING WHEEL</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u></p> <p>13</p> <p><u>1</u></p> <p>14</p>	<p style="text-align: center;">PASSENGER SIDE</p> <p style="text-align: center;">LOCATION OF AIRBAG</p> <p style="text-align: center;">INSTRUMENT PANEL (GLOVE BOX)</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u></p> <p>16</p> <p><u>1</u></p> <p>17</p>
<p style="text-align: center;">CONDITION OF AIRBAG</p> <p style="text-align: center;">STEERING WHEEL</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>4</u></p> <p>15</p>	<p style="text-align: center;">CONDITION OF AIRBAG</p> <p style="text-align: center;">INSTRUMENT PANEL (GLOVE BOX)</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u></p> <p>18</p>
<p style="text-align: center;">DRIVER SIDE</p> <p style="text-align: center;">AIRBAG</p> <p style="text-align: center;">STEERING WHEEL</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p> <p style="text-align: right;"><i>2 straps</i></p> <p style="text-align: right;"><i>lip stick</i></p>	<p><u>1</u></p> <p>19</p> <p><u>1</u></p> <p>20</p>	<p style="text-align: center;">PASSENGER SIDE</p> <p style="text-align: center;">AIRBAG</p> <p style="text-align: center;">INSTRUMENT PANEL (GLOVE BOX)</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>0</u></p> <p>21</p> <p><u>0</u></p> <p>22</p>

AIRBAG AB-2

AIRBAG NUMBER ON DRIVER SIDE:

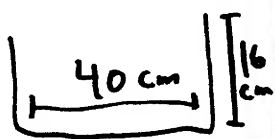
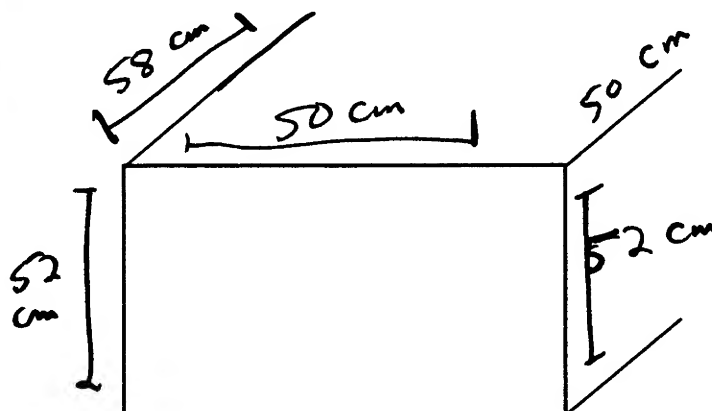
cover doors

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:

* to center of bag

AIRBAG NUMBER ON PASSENGER SIDE:

Cover door

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

TEAM REPORT NUMBER:

UM-3737-98

Duplicate columns 1-8 from the previous card.		Module <u>Q</u> <u>C</u> 9 10	Format <u>0</u> <u>2</u> 11 12	OCCUPANT INFORMATION OC-1	
OCCUPANT IDENTIFICATION OCCUPANT NUMBER <u>01</u> 13 14 ROLE OF OCCUPANT AT 1ST IMPACT (1) MOTOR VEHICLE DRIVER (2) MOTOR VEHICLE PASSENGER (NOT DRIVER) (9) UNKNOWN <u>L</u> 15		PHYSICAL DESCRIPTION AGE IN YEARS (00) LESS THAN 1 YEAR (98) 98 YEARS OR OLDER (99) UNKNOWN <u>46</u> 20 21 AGE IN MONTHS (00) LESS THAN 1 MONTH (25) 25 MONTHS OR OLDER (99) UNKNOWN <u>25</u> 22 23 MASS (kg) (999) UNKNOWN <u>062</u> 24 25 26 HEIGHT (cm) (999) UNKNOWN <u>167</u> 27 28 29 SEX (1) MALE (2) FEMALE (9) UNKNOWN <u>2</u> 30			
OCCUPANT POSITION ROW LOCATION (1) FRONT (2) SECOND (3) THIRD (4) FOURTH (7) OTHER: _____ (8) EXTERNAL TO PASSENGER COMPARTMENT (E.G. BED OF PICKUP) (9) UNKNOWN <u>1</u> 16 LATERAL LOCATION (1) LEFT (2) LEFT CENTER (3) CENTER (4) RIGHT CENTER (5) RIGHT (6) ALL (LYING ON SEAT) (8) EXTERNAL TO PASSENGER COMPARTMENT (9) UNKNOWN <u>1</u> 17 POSTURE (10) SITTING ON SEAT (11) SITTING ON SEAT IN ABNORMAL POSITION (E.G. FEET ON DASH, SIDEWAYS) (12) SITTING ON CONSOLE (20) ON LAP OR IN ARMS (30) STANDING ON SEAT (40) STANDING ON FLOOR (47) STANDING, EXTERNAL TO PASSENGER COMPARTMENT (50) IN BASSINET (60) IN CHILD SEAT (65) IN CHILD HARNESS (70) LYING ON SEAT (80) LYING/SITTING ON PASSENGER FLOOR (83) LYING/SITTING ON OTHER OBJECT IN PASSENGER COMPARTMENT: _____ (85) ON CARGO FLOOR/FOLDED SEAT-BACK (87) LYING/SITTING, EXTERNAL TO PASSENGER COMPARTMENT (97) OTHER: _____ (99) UNKNOWN <u>10</u> 18 19		MEDICAL CONDITIONS TREATMENT/MORTALITY (00) NONE (01) FIRST AID AT SCENE (02) TREATED AT HOSPITAL/CLINIC BUT NOT ADMITTED (03) HOSPITALIZED FOR OBSERVATION LESS THAN 24 HOURS (04) HOSPITALIZED OVER 24 HOURS OR FOR SIGNIFICANT TREATMENT (05) FATAL, DEAD AT SCENE (06) FATAL, DOA (07) FATAL, DEAD WITHIN 24 HOURS (08) FATAL, DEAD 24 HOURS TO 31 DAYS LATER (09) FATAL, DEAD 31 DAYS TO 1 YEAR LATER (10) FATAL DEAD WITHIN UNKNOWN PERIOD (99) UNKNOWN <u>04</u> 31 32 INJURY SEVERITY SCORE (ISS) (99) UNKNOWN <u>10</u> 33 34 NON-IMPACT MED. CONDITIONS (0) NONE (1) YES, TIME & TYPE UNKNOWN (2) PRE-CRASH FATAL (CLINICAL DEATH AT WHEEL) (3) PRE-CRASH NON-FATAL (E.G. PRIOR INJURY, STROKE) (4) PREGNANT (5) POST-CRASH FATAL (DROWNING) (6) POST-CRASH NON-FATAL INJURY (7) OTHER: _____ (8) COMBINATION OF ABOVE (CIRCLE EACH) (9) UNKNOWN <u>0</u> 35			

OCCUPANT INFORMATION OC-2

OCCUPANT INFORMATION OC-2			
MEDICAL CONDITIONS (CONT.) POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN	<div style="text-align: center;">3 36</div>	CHILD SEAT TYPE (00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN CHILD SEAT MAKE/MODEL _____ _____ _____	<div style="text-align: center;">88 41 42</div>
RESTRAINT SYSTEM ACTIVE RESTRAINT SYSTEM (0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN ACTIVE RESTRAINT SYSTEM USAGE (0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN PASSIVE RESTRAINT SYSTEM (0) NONE (1) AIRBAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIRBAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN PASSIVE RESTRAINT SYSTEM USAGE (0) SYSTEM DEFEATED (1) AIRBAG NOT DEPLOYED (2) AIRBAG DEPLOYED (3) AIRBAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN	<div style="text-align: center;">3 37</div> <div style="text-align: center;">3 38</div> <div style="text-align: center;">1 39</div> <div style="text-align: center;">2 40</div>	EJECTION DEGREE OF EJECTION (0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED AREA OF EJECTION (01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED	<div style="text-align: center;">0 43</div> <div style="text-align: center;">98 44 45</div>
IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW: _____ _____ _____ _____			
		HEAD RESTRAINT HEAD RESTRAINT AVAILABLE FOR THIS POSITION (0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN	<div style="text-align: center;">1 46</div>

OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER _____
- (8) NOT APPLICABLE
- (9) UNKNOWN

1
47

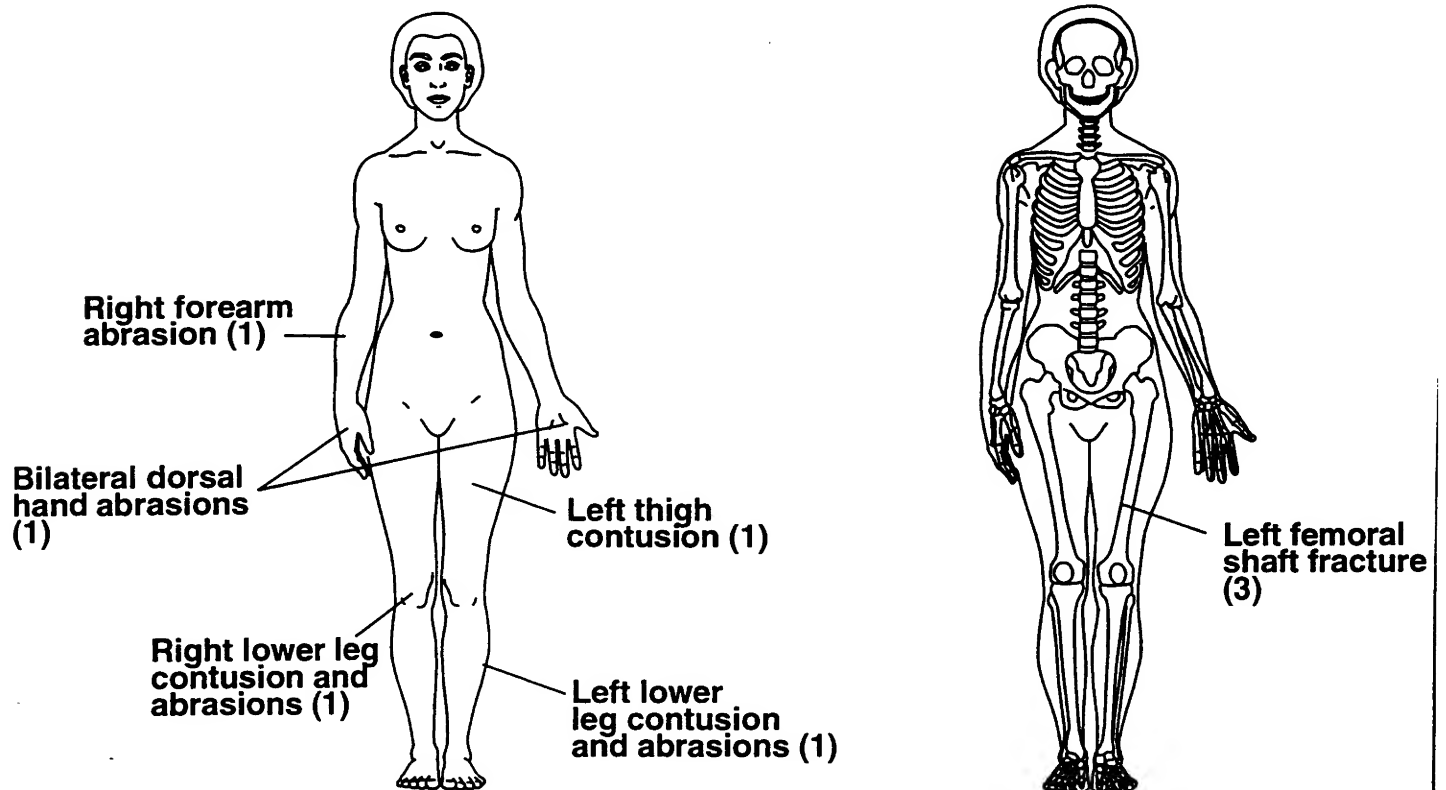
SOURCE OF INFORMATION

- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER _____
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

7
48

OCCUPANT INFORMATION OC-4

INDICATE LOCATION OF INJURIES.



Duplicate columns 1-8 from the previous card.

Module	<u>1</u>	<u>C</u>	Format	<u>0</u>	<u>1</u>
	9	10		11	12

INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

[illegible]

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

INJURY CLASSIFICATION IC-2

CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

PENETRATING OBJECTS

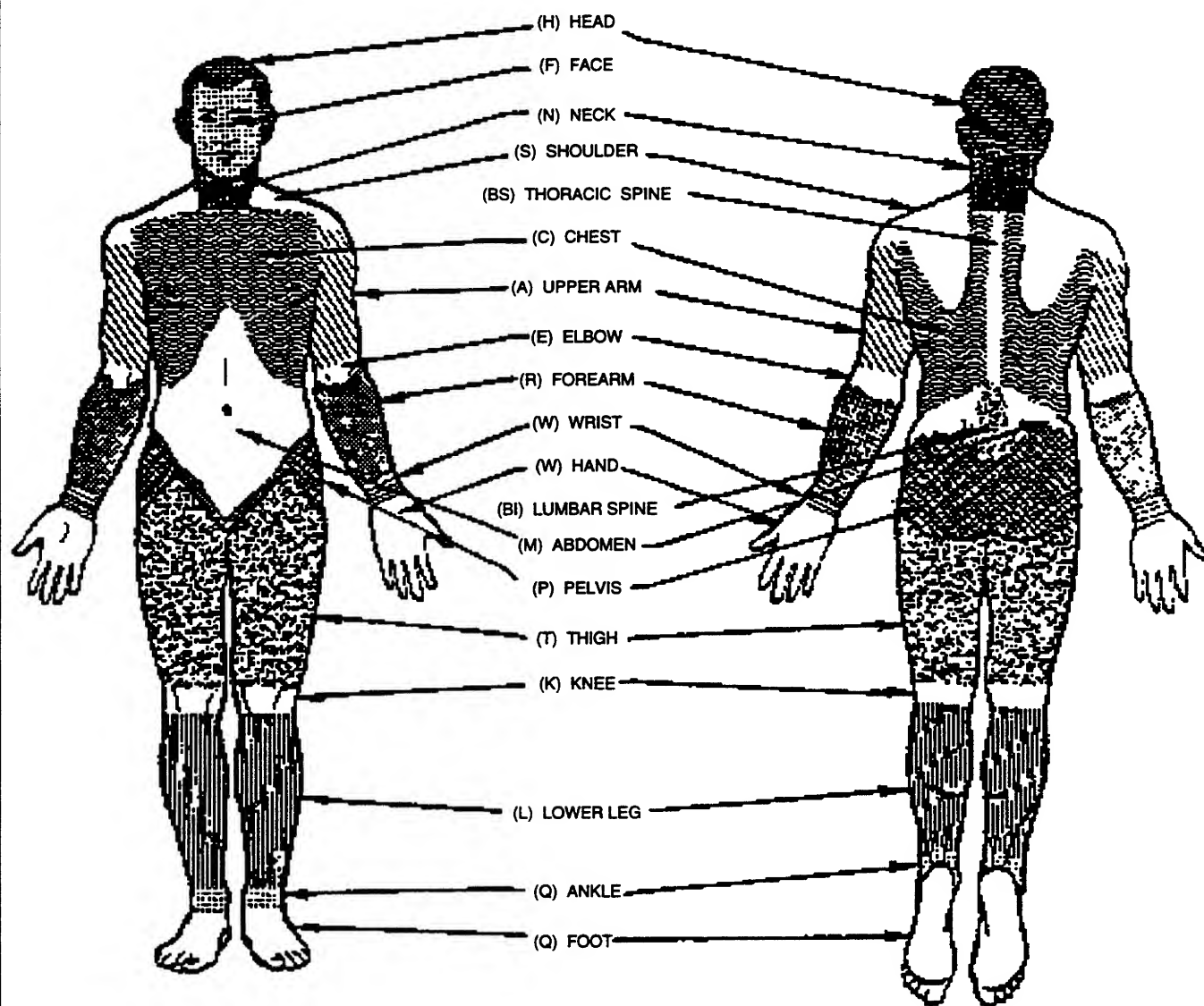
- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (*E.G. FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

INJURY CLASSIFICATION IC-3

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC - 4.



1 BODY REGION

- ### 3 LESION

- #### 4 SYSTEM/ORGAN

- (S) SKELETAL
- (V) VERTEBRAE
- (J) JOINTS
- (D) DIGESTIVE
- (L) LIVER
- (N) NERVOUS SYSTEM
- (B) BRAIN
- (C) SPINAL CORD
- (E) EARS
- (O) EYES
- (A) ARTERIES
- (H) HEART
- (Q) SPLEEN
- (G) UROGENITAL
- (K) KIDNEYS
- (R) RESPIRATORY
- (P) PULMONARY/LUNGS
- (M) MUSCLES
- (T) THYROID, OTHER
ENDOCRINE GLAND
- (I) INTEGUMENTARY (*SKIN*)
- (W) ALL SYSTEMS IN REGION
- (U) UNKNOWN

2 ASPECT

- | SEVERITY | 5 |
|--------------|---|
| SYSTEM/ORGAN | 4 |
| LESION | 3 |
| ASPECT | 2 |
| BODY REGION | 1 |

5 SEVERITY
(OR "AIS", ABBREVIATED
INJURY SCALE)

- (0) NONE
(1) MINOR
(2) MODERATE
(3) SERIOUS
(4) SEVERE
(5) CRITICAL
(6) MAXIMUM
(9) UNKNOWN

Duplicate columns 1-8
from the previous card.Module 0 0 Format 0 2
9 10 11 12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

02
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
(2) MOTOR VEHICLE PASSENGER
(NOT DRIVER)
(9) UNKNOWN

2
15

PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
(98) 98 YEARS OR OLDER
(99) UNKNOWN

12
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
(25) 25 MONTHS OR OLDER
(99) UNKNOWN

25
22 23

MASS (kg)

(999) UNKNOWN

041
24 25 26

HEIGHT (cm)

(999) UNKNOWN

163
27 28 29

SEX

- (1) MALE
(2) FEMALE
(9) UNKNOWN

1
30

OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
(2) SECOND
(3) THIRD
(4) FOURTH
(7) OTHER: _____
(8) EXTERNAL TO PASSENGER
COMPARTMENT (E.G. BED OF PICKUP)
(9) UNKNOWN

1
16

LATERAL LOCATION

- (1) LEFT
(2) LEFT CENTER
(3) CENTER
(4) RIGHT CENTER
(5) RIGHT
(6) ALL (LYING ON SEAT)
(8) EXTERNAL TO PASSENGER
COMPARTMENT
(9) UNKNOWN

5
17

POSTURE

- (10) SITTING ON SEAT
(11) SITTING ON SEAT IN ABNORMAL
POSITION (E.G. FEET ON DASH,
SIDEWAYS)
(12) SITTING ON CONSOLE
(20) ON LAP OR IN ARMS
(30) STANDING ON SEAT
(40) STANDING ON FLOOR
(47) STANDING, EXTERNAL TO
PASSENGER COMPARTMENT
(50) IN BASSINET
(60) IN CHILD SEAT
(65) IN CHILD HARNESS
(70) LYING ON SEAT
(80) LYING/SITTING ON PASSENGER
FLOOR
(83) LYING/SITTING ON OTHER
OBJECT IN PASSENGER
COMPARTMENT: _____
(85) ON CARGO FLOOR/FOLDED
SEAT-BACK
(87) LYING/SITTING, EXTERNAL TO
PASSENGER COMPARTMENT
(97) OTHER: _____
(99) UNKNOWN

10
18 19

MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
(01) FIRST AID AT SCENE
(02) TREATED AT HOSPITAL/CLINIC
BUT NOT ADMITTED
(03) HOSPITALIZED FOR OBSERVATION
LESS THAN 24 HOURS
(04) HOSPITALIZED OVER 24 HOURS
OR FOR SIGNIFICANT TREATMENT
(05) FATAL, DEAD AT SCENE
(06) FATAL, DOA
(07) FATAL, DEAD WITHIN 24 HOURS
(08) FATAL, DEAD 24 HOURS TO
31 DAYS LATER
(09) FATAL, DEAD 31 DAYS TO
1 YEAR LATER
(10) FATAL DEAD WITHIN UNKNOWN
PERIOD
(99) UNKNOWN

02
31 32

INJURY SEVERITY SCORE (ISS)

(99) UNKNOWN

01
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
(1) YES, TIME & TYPE UNKNOWN
(2) PRE-CRASH FATAL (CLINICAL
DEATH AT WHEEL)
(3) PRE-CRASH NON-FATAL (E.G.
PRIOR INJURY, STROKE)
(4) PREGNANT
(5) POST-CRASH FATAL (DROWNING)
(6) POST-CRASH NON-FATAL INJURY
(7) OTHER: _____
(8) COMBINATION OF ABOVE
(CIRCLE EACH)
(9) UNKNOWN

0
35

MEDICAL CONDITIONS (CONT.)

POLICE INJURY SEVERITY
CODE FOR THIS OCCUPANT

- (0) O - NO INJURY
 (1) C - POSSIBLE INJURY
 (2) B - NON-INCAPACITATING
 (3) A - INCAPACITATING INJURY
 (4) K - FATAL
 (5) INJURED, SEVERITY UNKNOWN
 (6) DIED PRIOR TO IMPACT
 (7) NON-FATAL INJURY,
 SEVERITY UNKNOWN
 (9) UNKNOWN

1
36

CHILD SEAT TYPE

- (00) NONE USED
 (01) YES, USED
 (02) INTEGRAL, Chrysler Mini-van
 (88) NOT APPLICABLE
 (ADULT OR OLDER CHILD)
 (99) UNKNOWN

88
41 42

CHILD SEAT MAKE/MODEL

RESTRAINT SYSTEM

ACTIVE RESTRAINT SYSTEM

- (0) NONE
 (1) LAP BELT
 (2) SHOULDER HARNESS ONLY
 (3) BOTH LAP BELT &
 SHOULDER HARNESS
 (9) UNKNOWN

3
37

ACTIVE RESTRAINT SYSTEM USAGE

- (0) NONE (AVAILABLE BUT NOT USED)
 (1) LAP BELT ONLY
 (2) SHOULDER HARNESS ONLY
 (3) BOTH LAP BELT &
 SHOULDER HARNESS
 (7) IMPROPER USAGE
 (8) NOT APPLICABLE (NONE AVAILABLE)
 (9) UNKNOWN

3
38

PASSIVE RESTRAINT SYSTEM

- (0) NONE
 (1) AIRBAG INSTALLED
 (2) PASSIVE UPPER TORSO
 WITH KNEE BOLSTERS
 (3) PASSIVE UPPER TORSO
 WITHOUT KNEE BOLSTERS
 (4) PASSIVE LAP & UPPER TORSO
 (5) AIRBAG INSTALLED &
 PASSIVE RESTRAINT
 (7) OTHER: _____
 (9) UNKNOWN

1
39

PASSIVE RESTRAINT SYSTEM USAGE

- (0) SYSTEM DEFEATED
 (1) AIRBAG NOT DEPLOYED
 (2) AIRBAG DEPLOYED
 (3) AIRBAG NOT REINSTALLED
 (4) PASSIVE UPPER TORSO USED
 (5) PASSIVE LAP & UPPER TORSO USED
 (6) SYSTEM USED IN MANUAL MODE
 (7) IMPROPER USAGE
 (8) NOT APPLICABLE (NOT ORIGINALLY
 EQUIPPED)
 (9) UNKNOWN

2
40

EJECTION

DEGREE OF EJECTION

- (0) NONE
 (1) PARTIAL
 (2) COMPLETE
 (7) EJECTED, DEGREE UNKNOWN
 (9) UNKNOWN IF EJECTED

0
43

AREA OF EJECTION

- (01) WINDOW, LEFT SIDE
 (02) WINDOW, RIGHT SIDE
 (03) WINDOW, REAR
 (04) DOOR, LEFT SIDE
 (05) DOOR, RIGHT SIDE
 (06) DOOR, REAR OR TAILGATE
 (07) WINDSHIELD
 (08) ROOF OR OPEN CONVERTIBLE OR
 FROM EXTERNAL AREA
 (96) EJECTED AREA UNKNOWN
 (97) OTHER AREA: _____
 (98) NOT APPLICABLE (NOT EJECTED)
 (99) UNKNOWN IF EJECTED

98
44 45

IF OCCUPANT WAS EJECTED, DESCRIBE
IN DETAIL BELOW:

HEAD RESTRAINT

HEAD RESTRAINT AVAILABLE
FOR THIS POSITION

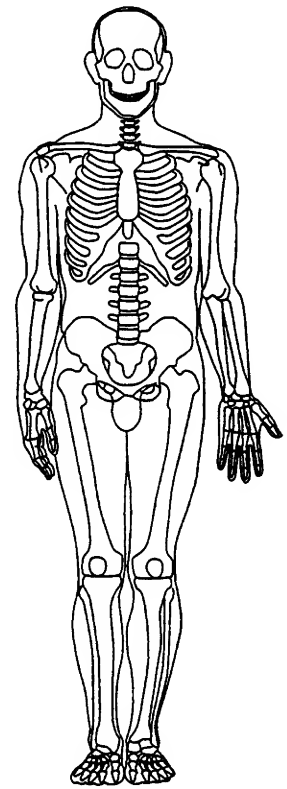
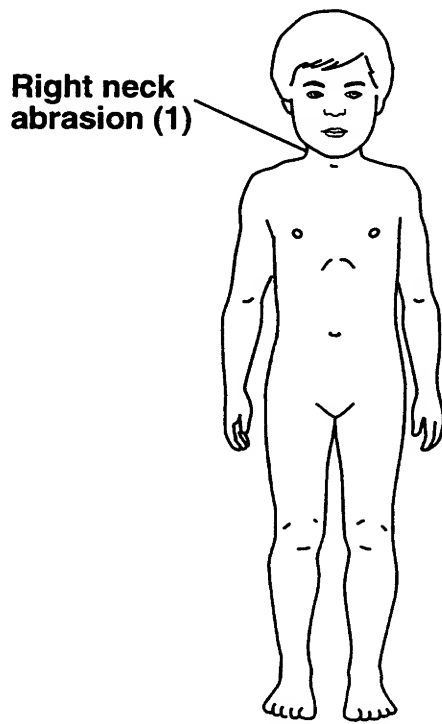
- (0) NOT EQUIPPED OR REMOVED
 (1) EQUIPPED
 (9) UNKNOWN

1
46

OCCUPANT INFORMATION OC-3

<p>OCCUPANT EYEWEAR</p> <p>(0) NONE (1) GLASSES (2) CONTACTS (3) BOTH GLASSES AND CONTACTS (4) OTHER _____ (8) NOT APPLICABLE (9) UNKNOWN</p>	<p style="text-align: center;">⑦ 47</p>	<p>SOURCE OF INFORMATION</p> <p>(0) INTERVIEW <i>mother/Driver</i> (1) HOSPITAL (2) AUTOPSY (3) POLICE (4) OTHER _____ (5) LAY CORONER/EXTERNAL EXAM (7) COMBINATION OF ABOVE (CIRCLE) (8) NOT APPLICABLE (9) UNKNOWN</p>	<p style="text-align: center;">⑦ 48</p>
--	---	--	---

INDICATE LOCATION OF INJURIES.



NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

[illegible]

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

Duplicate columns 1-8
from the previous card.Module 0 0 Format 0 2
9 10 11 12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

03
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
(2) MOTOR VEHICLE PASSENGER
(NOT DRIVER)
(9) UNKNOWN

2
15

PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
(98) 98 YEARS OR OLDER
(99) UNKNOWN

10
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
(25) 25 MONTHS OR OLDER
(99) UNKNOWN

25
22 23

MASS (kg)

(999) UNKNOWN

034
24 25 26

HEIGHT (cm)

(999) UNKNOWN

147
27 28 29

SEX

- (1) MALE
(2) FEMALE
(9) UNKNOWN

1
30

OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
(2) SECOND
(3) THIRD
(4) FOURTH
(7) OTHER: _____
(8) EXTERNAL TO PASSENGER
COMPARTMENT (E.G. BED OF PICKUP)
(9) UNKNOWN

2
16

LATERAL LOCATION

- (1) LEFT
(2) LEFT CENTER
(3) CENTER
(4) RIGHT CENTER
(5) RIGHT
(6) ALL (LYING ON SEAT)
(8) EXTERNAL TO PASSENGER
COMPARTMENT
(9) UNKNOWN

5
17

POSTURE

- (10) SITTING ON SEAT
(11) SITTING ON SEAT IN ABNORMAL
POSITION (E.G. FEET ON DASH,
SIDEWAYS)
(12) SITTING ON CONSOLE
(20) ON LAP OR IN ARMS
(30) STANDING ON SEAT
(40) STANDING ON FLOOR
(47) STANDING, EXTERNAL TO
PASSENGER COMPARTMENT
(50) IN BASSINET
(60) IN CHILD SEAT
(65) IN CHILD HARNESS
(70) LYING ON SEAT
(80) LYING/SITTING ON PASSENGER
FLOOR
(83) LYING/SITTING ON OTHER
OBJECT IN PASSENGER
COMPARTMENT: _____
(85) ON CARGO FLOOR/FOLDED
SEAT-BACK
(87) LYING/SITTING, EXTERNAL TO
PASSENGER COMPARTMENT
(97) OTHER: _____
(99) UNKNOWN

10
18 19

MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
(01) FIRST AID AT SCENE
(02) TREATED AT HOSPITAL/CLINIC
BUT NOT ADMITTED
(03) HOSPITALIZED FOR OBSERVATION
LESS THAN 24 HOURS
(04) HOSPITALIZED OVER 24 HOURS
OR FOR SIGNIFICANT TREATMENT
(05) FATAL, DEAD AT SCENE
(06) FATAL, DOA
(07) FATAL, DEAD WITHIN 24 HOURS
(08) FATAL, DEAD 24 HOURS TO
31 DAYS LATER
(09) FATAL, DEAD 31 DAYS TO
1 YEAR LATER
(10) FATAL DEAD WITHIN UNKNOWN
PERIOD
(99) UNKNOWN

00
31 32

INJURY SEVERITY SCORE (ISS)

(99) UNKNOWN

00
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
(1) YES, TIME & TYPE UNKNOWN
(2) PRE-CRASH FATAL (CLINICAL
DEATH AT WHEEL)
(3) PRE-CRASH NON-FATAL (E.G.
PRIOR INJURY, STROKE)
(4) PREGNANT
(5) POST-CRASH FATAL (DROWNING)
(6) POST-CRASH NON-FATAL INJURY
(7) OTHER: _____
(8) COMBINATION OF ABOVE
(CIRCLE EACH)
(9) UNKNOWN

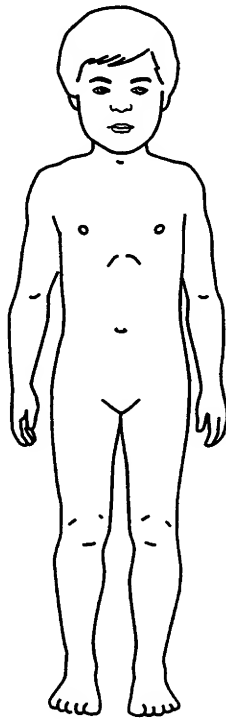
0
35

MEDICAL CONDITIONS (CONT.) POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN	<div style="text-align: center;">1</div> <div style="text-align: center;">36</div>	CHILD SEAT TYPE (00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN CHILD SEAT MAKE/MODEL <hr/> <hr/> <hr/>	<div style="text-align: center;">88</div> <div style="text-align: center;">41 42</div>	
RESTRAINT SYSTEM ACTIVE RESTRAINT SYSTEM (0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN ACTIVE RESTRAINT SYSTEM USAGE (0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN PASSIVE RESTRAINT SYSTEM (0) NONE (1) AIR BAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIR BAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN PASSIVE RESTRAINT SYSTEM USAGE (0) SYSTEM DEFEATED (1) AIR BAG NOT DEPLOYED (2) AIR BAG DEPLOYED (3) AIR BAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN	<div style="text-align: center;">3</div> <div style="text-align: center;">37</div> <div style="text-align: center;">3</div> <div style="text-align: center;">38</div> <div style="text-align: center;">0</div> <div style="text-align: center;">39</div> <div style="text-align: center;">8</div> <div style="text-align: center;">40</div>	EJECTION DEGREE OF EJECTION (0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED AREA OF EJECTION (01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED	<div style="text-align: center;">0</div> <div style="text-align: center;">43</div> <div style="text-align: center;">98</div> <div style="text-align: center;">44 45</div>	
IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW: <hr/> <hr/> <hr/>				
HEAD RESTRAINT HEAD RESTRAINT AVAILABLE FOR THIS POSITION (0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN				<div style="text-align: center;">1</div> <div style="text-align: center;">46</div>

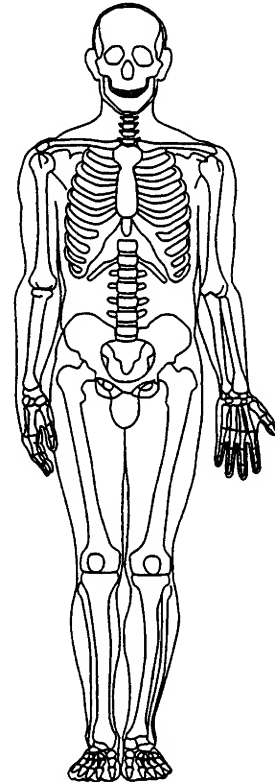
OCCUPANT INFORMATION OC-3

OCCUPANT INFORMATION OC-3			
OCCUPANT EYEWEAR	<input checked="" type="radio"/>	SOURCE OF INFORMATION	<input checked="" type="radio"/>
(0) NONE	<div>47</div>	(0) INTERVIEW <i>mother/Driver</i>	<div>48</div>
(1) GLASSES		(1) HOSPITAL	
(2) CONTACTS		(2) AUTOPSY	
(3) BOTH GLASSES AND CONTACTS		(3) POLICE	
(4) OTHER _____		(4) OTHER _____	
(8) NOT APPLICABLE		(5) LAY CORONER/EXTERNAL EXAM	
(9) UNKNOWN		(7) COMBINATION OF ABOVE (CIRCLE)	
		(8) NOT APPLICABLE	
		(9) UNKNOWN	

INDICATE LOCATION OF INJURIES.



No Injuries Reported



Duplicate columns 1-8
from the previous card.

Module 1 C Format 0 1
9 10 11 12

INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

					PRIMARY OIC					ASSOCIATED OIC					COMMENTS
OCCUPANT NUMBER	INJURY NUMBER	PLACE CONTACTS IN ORDER OF PROBABILITY (HORIZONTALLY). START WITH MOST PROBABLE IN 1ST CONTACT AREA COLUMN.		COMMENTS	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	
		AREA(S) OF POSSIBLE CONTACT 1ST	2ND												
13-14	15-16	17-18	19-20	COMMENTS	21	22	23	24	25	26	27	28	29	30	
①3	---	---	---	NO Injury	---	---	---	---	---	---	---	---	---	---	
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NOTE: USE ADDITIONAL PAGES IF NECESSARY.



PN3737-08 #2



PN 3737-98 #3
Best Available



PN 3737-98 #4
Best Available



PN 3737-08 #5
Best Available



PN 3737-98 #6
Best Available



PN 3737-98 #7
Best Available



PN 3737-98 #8
Best Available



PN 3737-98 #9
Best Available



PN3737-98 #10



PN3737-98 #11



PN 3737-98 #12



PN 3737-98 #13



PN 3737-98 #14



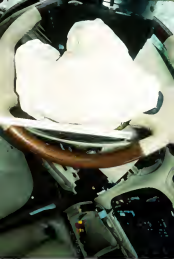
PN3737-68 #15
Best Available



PN 3737-88 #16



PN 3737-98 #17
Best Available



PN 3737-98 #18
Best Available



PN 3737-98 #19
Best Available



PN 3737-96 #20
Best Available



PN3737-98 #21
Best Available



PN 3737-98 #22
Best Available



PN 3737-98 #23
Best Available



PN 3737-98 #24
Best Available



PN 3737-98 #25
Best Available



PN 3737-98 #26
Best Available



PN 3737-98 #27
Best Available



PN 3737-98 #28



PN3737-98 #29



PN 3737-98 #30



PN3737-00 #31



PN 3737-98 #32



PN 3737-98 #33



PN 3737-88 #34



PN 3737-00 #35



PN3737-98 #36



PN 3737-98 #37



PN3737-98 #38



PN 3737-96 #39



PN3737-98 #40



PN3737-98 #41



PN 3737-98 #42

PN 3737-98
Washington, DC 20008-1000
1-800-368-6868 Fax 202-371-1000

PN 3737-98 (Rev. 1) All year publications
167 cm 55 miling 55 62 kg 135 lbs
100 cm 39 inches 100 cm 39 inches
100 cm 39 inches 100 cm 39 inches



Case: 17-1274 07/17/2018

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1. ☐ **Q101010**

2. ☐ **Q101020**

3. ☐ **Q101030**

4. ☐ **Q101040**

5. ☐ **Q101050**

6. ☐ **Q101060**

7. ☐ **Q101070**

